CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, February 6, 1908.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File 37
List of Contracts Pending 37
Railways 38
Electric Railways 38
Light and Power Plants 39
Bridges 39
Buildings 40
Water Supply and Irrigation 41
Sewerage 41
Garbage Disposal and Street Cleaning. 41
Streets and Roads 41
Manufacturing Plants 42
Miscellaneous Contracts 43
U. S. Possessions and Cuba 43
Contract Prices 43
Engineering Material Prices 44
INDUSTRIAL NOTES 44
READERS' WANTS 44
TRADE PUBLICATIONS 44
PROPOSALS 44

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONSON FILE.

(* denotes that this work is advertised in Engineering News.)

The following lans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

2-15*Fire hydrants, Asbury Park, N. J. .....(S.) 2- 6
2-29 Elec. elecators, etc, N. Y. (S.)... 2- 6
3- 1 Water-works supplies, Vancouver, B. C. .....(S.) 1-16
3-12 Cement, Panama .....(S.) 2- 6
3-18 Pumping plant, Oakland, Cal. .....(P. & S.) 2- 6

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

2-12 Light fixtures, Ft. Des Moines, Ia. 2- 6
2-13 Gas producer, Milwaukee, Wis... 1- 9
2-15*Conduit, Washington, D. C..... 1-30
2-17 Light station, Park Ridge, N. J... 2- 6
2-20*Light fixtures, West Point, N. Y. 1-30
2-24 Light fixtures, Ft. Des Moines, Ia. 2- 6
2-24*Lighting standards, Atlantic City, N. J. 2- 6
2-24*Lamp brackets, Chicago, Ill..... 2- 6
2-25 Equipment, etc., Augusta, Fla.. 1-30
3- 4 Light Fixtures, Jackson, Minn.... 2- 6

BRIDGES.

2- 8 Pile bridges, Hays, Kan..... 2- 6
2-10 Steel bridge, St. George, Utah.... 2- 6
2-10 Viaduct, Joplin, Mo..... 2- 6
2-10 Bridge, Fredericton, N. B..... 1-30
2-10 Bridge, Cleveland, Ohio..... 1-30
2-11 Bridge, Sybertsville, Pa..... 1-30
2-11 Iron bridge, Beeville, Tex..... 1-30
2-11 Wooden bridge, Junction, Utah.. 1-30
2-11 Steel bridges, Grand Forks, N. Dak. 1-23
2-12 Bridges, Cleveland, Ohio.....
2-14 Bridge, Huntsville, Mo. 1-23
2-15 Iron bridge, etc., Borden, Ind... 2- 6
2-15*Concrete bridge and superstructure, Monterey, N. L. Mex..... 2- 6
2-17 Bridges, Skamokawa, Wash..... 2- 6
2-17 Steel bridgus, Newark, Ohio 1-30
2-17*Steel bridge, Rosenberg, Tex.... 1-30
2-18 Bridges, Grand Island, Neb..... 2- 6
2-19 Bridges, Waterloo, Iowa..... 2- 6
2-20*Bridges, Brandon, Man..... 2- 6
2-20 Steel span, etc., Alexandria, La.. 1-30
2-26 Steel con. bridge, Cleveland, O.. 2- 6
3- 2 Drawbridge, Gulfport, Miss..... 1-30
3- 3 Steel bridge, Neligh, Neb..... 2- 6
3- 3 Trestle bridge, Wenatchee, Wash. 2- 6
3- 6 Reinforced-concrete bridge, Fergus Falls, Minn. 2- 6
3-31 Bridge plank, Watertown, Minn.. 2- 6

BUILDINGS.

2-10 Repairs, Norwalk, O..... 1-16
2-10 Building materials, New York, N. Y..... 2- 6
2-10 Building, Des Moines, Ia..... 2- 6
2-10 Polling houses, Hartford, Conn... 2- 6
2-11 Building, Lansing, Mich..... 2- 6
2-11*Post-office, etc., Chattanooga, Tenn. 1- 2
2-11 Building, Agricultural College, Mich. 1-30
2-12 Building, Chattanooga, Tenn..... 1-16
2-12*Boat-house, Delaware City, Del.. 1-16
2-13 Fire station, etc., Buffalo, N. Y. 2- 6
2-14 Post-office, Bluefield, W. Va..... 1- 9
2-15 Laundry (Mfg. Pl.) Montevallo, Ala 2- 6
2-15*Plans, etc., Ossining, N. Y..... 2- 6
2-17 School, Cincinnati, Ohio 2- 6
2-17*Post-office, Ogden, Utah..... 1- 2
2-17 School, Cincinnati, Ohio..... 1-23
2-17 School, Richmond, Va..... 1-30
2-18 Post-office, Columbus, Ohio..... 1- 9
2-18 School, La Crosse, Wis..... 1- 9
2-18 Building, Des Moines, Ia..... 2- 6
2-18 Plans, etc., Meriden, Conn..... 1-30
2-20 City Hall, Flint, Mich..... 2- 6
2-20*Interior work, Washington, D. C. 1-30
2-21 Post-office, Pine Bluff, Ark..... 1-16
2-25*Post-office, Marinette, Wis..... 1-16
2-27 School, Milwaukee, Wis..... 2- 6
2-28*Post-office, Tuscaloosa, Ala..... 1-30
2-28 Refrigerating machinery, (Mfg. Plants), Atlanta, Ga 2- 6
3- 2 Gymnasium, Madison, Wis..... 1-23
3- 2 Post-office, Colorado Springs, Colo. 1-22
3- 3*Hospital, Ft. Andrews, Mass..... 2- 6
3- 4 Post-office, Duluth, Minn..... 1-30
3- 5*Post-office, Red Wing, Minn..... 1-30
3-10 Post-office, Greenville, N. C..... 2- 6
3-12*Post-office, Rochester, N. Y..... 2- 6
3-16*Cathedral, St. Louis, Mo..... 1-30
3-23 Plans, etc., Richmond, Va..... 2- 6

WATER-WORKS.

2- 7*Water pipe, etc., Brewster, N. Y. 2- 6
2- 5*Furnace boiler, Asbury Park, N. J. 1-30
2-10 W.-Works, Benton Harbor, Mich. 2- 6
2-10 W.-Works, Berrien Springs, Mich. 2- 6
2-11 Water-works material, Adel, Ga. 1-30
2-11 Pressure pump, New York, N. Y.. 1-30
2-12 Water-pipe, South Bend, Ind..... 1-23
2-12 Water pipe, South Bend, Ind.... 2- 6
2-15*Steel tank, Madison Barracks, N. Y. 1-16
2-15*Hydrants, Asbury Park, N. J.... 1-30
2-17 Pumping plant, North Milwaukee, Wis. 2- 6
2-17*Pumping mach'n'y, Marion, Mass. 2- 6
2-27*Boilers, etc., Fort Morgan, Ala.. 2- 6
2-28*Reservoir, etc., Brewster, N. Y. 2- 6
3- 1 Canal, Klamath Falls, Ore..... 2- 6
3- 3*Pump, Dallas, Tex..... 1-30
3-18*Salt-water pumping plant, Oakland, Cal. 2- 6

SEWERS.

2- 7 Sewers, Washington, D. C..... 1-30
2- 7 Sewer pipe, Austin, Minn..... 2- 6
2- 8 Trunk sewer, Seattle, Wash..... 1-16
2-10*Sewer, Hattiesburg, Miss. 1-23
2-10*Tile sewers, Bartlesville, Okla.... 2- 6
2-12 Sewers, Cairo, Ill..... 2- 6
2-13*Relief sewer, Wilmette, Ill..... 2- 6
2-13 Sewers, Cleveland, Ohio..... 2- 6
2-14 Vitrified clay pipe, Minneapolis, Minn. 2- 6
2-17 Storm water sewer, Emporia, Kan. 2- 6
2-17 Sewer, Youngstown, Ohio..... 2- 6
2-18 Sewer, Hamilton, Ohio 1-23
2-19 Sewers, etc., Eaton, Ohio..... 1-30
2-19*Interceptor, Baltimore, Md..... 2- 6
2-19 Sewer pipe, Brooklyn, N. Y..... 2- 6
2-24 Sewer system, Takoma Park, D. C. 1-30
3-25 Sewers, Jackson, Ohio..... 2- 6
3-17*Sewer system, etc., Auburn, N. Y. 1-30

STREETS AND ROADS.

2- 7 Grading, Willington, Conn..... 2- 6
2- 8 Stone roads, Ottawa, Ohio..... 1-30
2- 8 Floor and sidewalk, Tiffin, Ohio.. 1-30
2-10*Paving, Red Bank, N. J..... 1-30
2-10 Screenings, etc., Pittsburg, Pa.... 1-23
2-10 Macadamized roads, Bedford, Ind. 1-23
2-11 Street improvements, St. Louis, Mo. 1-23
2-11 Street paving, Cadillac, Mich..... 2- 6
2-11 Paving driveways, Charlotte, N. C. 2- 6
2-12 Grading, Houston, Tex..... 2- 6
2-12 Brick paving, Cairo, Ill..... 2- 6
2-12 Asphalt plant, Indianapolis, Ind.. 2- 6
2-13*Brick paving, North Olean, N. Y. 1-23
2-13 Paving gravel, etc., Bklyn., N. Y. 1-30
2-14 Portland cement, etc., Minneapolis, Minn. 2- 6
2-14 Paving, etc., Buffalo, N. Y..... 2- 6
2-15*Concrete sidewalk, Madison Barracks, N. Y 1-16
2-15 Limestone, etc., Muskegon, Mich. 1- 9
2-17 Gravel roads, Mt. Vernon, Ind.. 1-30
2-17 Grading, etc., Youngstown, Ohio. 2- 6
2-17 Brick, Atlanta, Ga..... 2- 6
2-17 Paving cement, New York, N. Y.. 2- 6
2-19 Paving brick, etc., Bklyn., N. Y.. 2- 6
2-19*Dyking, etc., Aberdeen, Wash.. 1- 9
2-20 Roadway, Ft. Barrancas, Fla.... 1-30
2-20 Grading, etc., Cambridge, Ohio.. 2- 6
2-20*Grading, etc., Freeport, Pa..... 2- 6
2-21*Street improvement, Salt Lake City, Utah 1-16
2-22 Gravel road, Terre Haute, Ind.. 1-23
3- 2 Sidewalks, Fayetteville, Tenn..... 1-16
3- 2 Grading, Fort William, Mo..... 1-30
3- 2 Macadam road, Ft. Terry, N. Y.. 1-30
3- 2*Macadam roads, etc., Fort Dupont, Del. 2- 6
3- 2*Roads, etc., Fort Meade, S. Dak. 2- 6
3- 3 Stone road, Monticello, Ind..... 1-30
3- 5*Brick pavement, etc., Corning, N. Y. 2- 6
4- 1*Roads, etc., Fort Wood, N. Y... 2- 6

MISCELLANEOUS.

2- 7 Jetties, etc., Falmouth, Mass..... 1-30
2- 7 Ditches, Elbow Lake, Minn..... 1-16
2-10*Repairing wharf, Boston, Mass... 1-16
2-10*Snagboats, Mobile, Ala..... 1-16
2-10*Excavation, etc., Nashville, Tenn. 1- 9
2-10 Wharf repairs, Boston, Mass.... 1-23
2-10 Eng. supplies, Panama 1-30
2-10 Road-roller repair, Hartford, Conn. 2- 6
2-10 Sale of quarry, Ellicott City, Md. 2- 6
2-11 Garbage reduction, St. Louis, Mo. 12-12
2-12*Dredging, Baltimore, Md..... 2- 6
2-13 Lumber, Panama 1-30
2-13 Ash delivery, New York, N. Y.. 2- 6
2-13 Boat wagons, New York, N. Y... 2- 6
2-13 Sand, pitch, cement, etc., Brooklyn, N. Y. 2- 6
2-13 Timber, Pittsburg, Pa..... 2- 6
2-14*Dredge, Galveston, Tex..... 1-16
2-15 Boat-house, etc., Biloxi, Miss.. 1-23
2-15*Beacon lights, Baltimore, Md... 1-30
2-17 Dredging, San Francisco, Cal... 1-30
2-17*Dams, etc., Rock Island, Ill.... 1-23
2-17 Ditch, Yankton, S. Dak..... 2- 6
2-18 Barge canal, Albany, N. Y..... 1-30
2-18*Cable railways, Panama 1-30
2-18 Ditch, Hamilton, Ohio 2- 6
2-18 Ditch, Redwood Falls, Minn..... 2- 6
2-18 Platform, Jefferson Barracks, Mo. 1-30
2-18 Police alarms, Ft. Wayne, Ind... 2- 6
2-19*Filling, Aberdeen, Wash..... 1- 9
2-20*Light-house, Wilmington, Del.... 1-30
2-20 Eng. supplies, Panama 2- 6
2-24 Eng. supplies, Panama 2- 6
2-20 Stone, Seattle, Wash 2- 6
2-24*Breakwater, etc., Algoma, Wis.. 1-30
2-28 Cement, Atlanta, Ga..... 2- 6
2-29 Elec. elevators, etc., New York.. 2- 6
3- 5*Repairing pier, Grand Rapids, Mich. 2- 6
3-12 Cement, Panama 2- 6
3-12 Canal, Ottawa, Ont..... 1-23
3-14*Walls, Buffalo, N. Y..... 1-16
3-31*Breakwater, Hawaii, T. H..... 1-30

FOREIGN.

2-15 Designs, Municipal Bldgs., China. 1- 2
3-11 'Phone material, Australia.....11-28
3-31 Railway hotel, Cape Colony 1-30
5- 1 Elec. railway Argentina 11-21

CIVIL SERVICE.

2-15 Asst. Elec. Engr., Albany, N. Y.. 1-30
2-15 Asst. Steam Engr., Albany, N. Y. 1-30
2-15 Bridge Draftsman, Albany, N. Y. 1-30
2-15 Chemist, Albany, N. Y..... 1-30
2-15 Masonry instructor, Albany, N. Y. 1-30

RAILWAYS.

ARGENTINE CENTRAL.—Arthur E. Osborne, Ch. Engr., Georgetown, Colo., advises us that the proposed extension from Mt. McClellen to Main Range, Colo., will be 2½ miles long. Surveys are made and right-of-way is secured. Noted on Jan. 2.

ARKANSAS, RED RIVER & PARIS.—The Arkansas R. R. Commission has granted an extension of time of 18 months to this company to begin work on its proposed line from Morris Ferry (Winthrop post-office), Little River County, Ark., to a point on the St. Louis & San Francisco R. R., in Oklahoma. It will be 35 miles long. The company has already expended a considerable sum in grading and right-of-way since its incorporation in July, 1906. P. S. Brown is Pres., Kansas City, Mo.

BIRMINGHAM, COLUMBUS & ST. ANDREWS.—W. M. Gordon, Pres., Chipley, Fla., advises us that right-of-way has been secured for an extension from Chipley, Fla., to Enterprise, Ala., 60 miles. Surveys have not been made.

CHIPPEWA VALLEY & NORTHERN.—We are officially informed that construction of proposed extension will be built by the ARPIN HARDWOOD LUMBER CO., of Grand Rapids, Mich. J. Z. Arpin is Vice-Pres. and Mgr., Grand Rapids. Noted on Dec. 12.

CINCINNATI, NEW ORLEANS & TEXAS PACIFIC.—Announcement is made that the Cincinnati, New Orleans & Texas Pacific Ry. Co. has awarded to the W. J. OLIVER CONSTRUCTION CO., of Knoxville, Tenn., a contract for a double-track line to connect the main lines of the Southern and Alabama Great Southern railroads with the local terminal properties of the Queen & Crescent System. The work will cost about $100,000.

CLINCH & SANDY.—This company has been granted a charter in Virginia, it is stated, to build a line 50 miles long from St. Paul, Va., to the breaks of the Big Sandy River. It will run through Wise, Russell, Dickinson and Buchanan Counties. The incorporators are R. T. Irvine, Pres., Big Stone Gap, Va.; T. P. Trigg, Vice-Pres., Abingdon, Va.; J. S. Wright, Secy.; J. W. Kelly, Treas.; H. E. Fox, C. M. Franklin, D. E. Allen and James G. Nesbit, all of Big Stone Gap, Va.

DENVER, NORTHWESTERN & PACIFIC.—H. A. Sumner, Ch. Engr., Denver, advises us that the contract for building the extension noted on Jan. 2 has been awarded to the DENVER-STEAMBOAT CONSTRUCTION CO., of Denver. The line will run from Yarmony, via Toponas, Yampa and Oak Creek coal fields, to Steamboat Springs, Colo., 68 miles. Right-of-way and capital are secured, surveys are made and construction under way. D. C. Dodge is Pres., Denver.

GALVESTON BELT & TERMINAL.—A meeting has been called for March 20 to vote upon an issue of bonds not to exceed $5,000,000 in connection with its improvement work. W. E. Green is Pres. and E. R. Cheeseborough is Secy., Galveston, Tex.

GREAT NORTHERN.—The British Columbia General Contract Co., having assigned and being unable to complete its grading contract on the branch between Cloverdale and Abbotts, B. C., the work will be carried on by A. GUTHRIE & CO., German-American Bank Bldg., St. Paul, Minn.

IDAHO, WASHINGTON & NORTHERN.—This railroad is now in operation from McGuires, Idaho, to Newport, Wash., via Rathdrum and Coleman, Idaho, 52 miles. An extension will be built to Metaline, Wash., from Newport, along the Pend d'Oreille River. F. A. Blackwell is Pres. and L. F. McCoy is Ch. Engr., Spirit Lake, Idaho. Noted on Dec. 19.

ILLINOIS, IOWA & MINNESOTA.—We are officially advised that final survey has just been completed for the proposed extension from Momence, Ill., to Gary, Ind., 42 miles. No contracts have been let. This company now operates 125 miles of line, from Rockford to Momence. I. W. Troxel is Ch. Engr.; H. W. Seaman is Pres., The Rookery, Chicago.

MISSOURI.—R. B. Beeler, Woodford M. Davis and Albert B. Duncan, of St. Joseph, Mo., and Harry Taylor, E. S. Roemer and Patrick T. White of St. Louis are interested in proposed Rockport-Shenandoah railway. It is announced that practically all of the funds necessary for building the line have been subscribed, and construction work will be inaugurated with the return of favorable weather. The road will be about 40 miles in length.

MISSISSIPPI VALLEY.—Incorporated in Arkansas for the purpose of leasing the Portland & Southeastern R. R. This company operates a railway from Portland to Empire, Ark., eleven miles, with a 3-mile branch from Empire to Eagleville. The incorporators are J. H. Bird and M. G. Price of St. Louis, C. C. Curl, H. L. Pitman and Charles Sawyer of Portland, Ark.

MISSISSIPPI.—The Wausau Southern Lumber Co., Wausau, Wis., is proceeding with plans for establishment of saw and planing mill at Laurel, Miss. A branch railroad will be built from Laurel to the further edge of this property, connecting with the Alabama & Mississippi R. R. J. M. T. Hamilton, Meridian, Miss., is in charge of laying out the town site. It is estimated that improvements contemplated will cost about $2,500,000. See under Manufacturing Plants.

MOREHEAD & NORTH FORK.—We are officially advised that this company proposes to begin track laying March 1, from Paragon to Craney Creek, Ky., a distance of five miles. Location surveys have been completed from Craney Creek to Cox's schoolhouse via Redwine on the north fork of Licking River, ten miles. Maximum grade, 1%. The country is generally mountainous and abounds in timber and coal. Grading is being pushed as fast as weather conditions will permit. The SNYDER CONSTRUCTION CO. has the contract. S. L. Chiles, Jr., of Morehead, Ky., is Engr. Noted on Dec. 12. W. M. McCormick, Pres.; A. W. Lee, Vice-Pres., Morehead.

NEW YORK CONNECTING R. R. — This company has applied to the Public Service Commission to extend until Feb. 28, 1910, the time in which to obtain the consent of the owners of one-half in value of the property bounded on the portions of the streets over or under which the railroad is to run, or in lieu of such consent the determination of commissioners appointed by the Appellate Division of the Supreme Court, confirmed by that court. Under the franchise granted by the old Rapid Transit Board and the Board of Estimate the time in which these consents can be obtained will expire is Feb. 28, 1908. As previously noted, the New York Connecting R. R. is intended to connect the New Haven road with the Pennsylvania system. The route is from Port Morris, N. Y., by way of bridges over Randall's and Ward's Islands to Astoria and thence to Long Island City. In its application for an extension of time the company sets forth that any postponement of the completion of the connecting railroad will not delay the completion of the Pennsylvania Tunnel & Terminal Railroad and the through operation of trains between the Pennsylvania R. R. Co.'s lines and the boroughs of Manhattan and Queens. The application sets forth that one half the stock of the New York Connecting Railroad Co. is owned by the Pennsylvania Railroad Co. and the other half by the New York, New Haven & Hartford Railroad Co. The total amount of capital stock is $3,000,000, full paid in cash, and more than that sum has already been expended in the construction of the railroad and the purchase of its right-of-way. The net cost of the railroad is estimated at more than $14,000,000.

OKLAHOMA MINERAL BELT.—Geo. R. Ray, Pres., Roosevelt, Okla., advises us that contracts probably will be let about June 1 for constructing this railroad. It will extend from Memphis, Tenn., to Hope, Ark., with branches to El Reno and Ardmore. It will be 650 miles long. Capital is secured. Noted onu Jan. 2.

ONTONAGON SOUTHERN.—Surveys are being made for this railroad, we are officially advised by C. H. Hartley, Gen. Mgr. of the Wisconsin & Northern R. R. Co. As noted on Oct 24, this company has been incorporated in Michigan as a subsidiary line for the Wisconsin & Northern R R, which now runs from Oshkosh, Wis, to Ontonagon, Mich. It is projected by the Menasha Woodenware Co., of Menasha, Wis., principally for the purpose of serving a large and well-timbered territory in the northern portion of Wisconsin and the northern and western portion of the upper peninsula. Statutory requirements make it desirable that the Michigan portion of the road should be incorporated as a separate railroad, and hence the Ontonagon Southern. The Wisconsin & Northern has about 50 miles of track laid north from Appleton to its junction with the Soo Line, and is already doing business. The two roads will have approximately a total on Jan. 2.

PADUCAH NORTHERN.—Incorporated in Kentucky as a terminal company for the purpose of securing right-of-way into Paducah, Ky., and for building a bridge across the Ohio River at Metropolis, Ill. The headquarters of the new company are at Paducah, Ky. The incorporators are George C. Wallace, H. C. Overbey, L. M. Rieke, James C. Utterback, Joseph L. Friedman, Earl Palmer, Richard Ruddy, L. P. Hummel, Muscoe Burnett, O. L. Gregory, W. F. Bradshaw, Jr., John W. Keller, Max B. Nahm and Samuel B. Hughes.

PANHANDLE SHORT LINE.—Contracts will be let this month for grading about 150 miles on this railway. It will run from Dalhart, Tex., southeast to Aransas Pass, Tex., via Hereford, Midland, Uvalde and Artesia, about 750 miles in length. Surveys are made and right-of-way partly obtained. J. H. Ranson is Pres. and Gen. Mgr., and J. S. McClearey is Ch. Engr., Hereford, Tex. Noted on May 2. Incorporation of this company was noted on April 11, 1907.

ROBERT LEE & FORT CHADBOURNE.—The proposed route of this railway is from Robert Lee, Tex., to Rawlings, 13½ miles; also from Rawlings to Winters, 21½ miles. From Robert Lee toward Rawlings 2½ miles are graded, and grading will now proceed from Rawlings toward Robert Lee. J. E. Hunter is Construct. Engr.; S. J. Bross is Ch. Engr. Noted on Nov. 7 and Sept. 26.

ST. LOUIS & OKLAHOMA.—According to the New York "Commercial," construction of the St. Louis & Oklahoma R. R. is to be at once resumed by the MONETT & SOUTHWESTERN CONSTRUCTION CO., Monett, Ark., with a largely increased force. The latter is to issue $150,000 of bonds, with the privilege of increasing this to $10,000 per mile. Within 60 days the laying of steels is to begin. The railroad is to be 300 miles long and decrease the distance between St. Louis and southern Oklahoma, Texas, and Mexico more than 100 miles. The line will go by way of Tahlequah, Okla., Muskogee and McAllister, with a spur to Joplin, Mo. The section now financed is from Muskogee, Okla., to Joplin, Mo. The company is incorporated in both Missouri and Oklahoma and capitalized at $10,000,000. In the system are several auxiliary companies including the Muskogee & Texas and the Pineville & Northern. The ST. LOUIS CONSTRUCTION CO. will build that section of the road south of the Arkansas River in Oklahoma to McAllister, Okla., and complete the portion between Southwest City and the Arkansas River this year. The MONETT & SOUTHWESTERN CONSTRUCTION CO. is building the road between Joplin, Mo., and Muskogee, Okla., a distance of about 120 miles. The entire survey, covering the distance of about 300 miles, is practically complete, and full estimates have been made up.

VANCOUVER ISLAND & EASTERN.—This company is petitioning parliament for a charter to build a railway from Victoria to Edmonton. The promoters are: T. M. Peterson, of Victoria, B. C., and M. J. Hanly, of Toronto. The petition is being opposed by other railway companies interested in the same territory.

WHITE PASS & YUKON ROUTE.—Parliament has granted authority to this company to construct a branch from White Horse to the Tahkeena River, Yukon Territory, Canada, 22 miles, in order to tap the copper mines of this district. The line is to be commenced within two years and completed within five years. The securities shall not exceed $30,000 a mile. V. I. Hahn is Supt., Skaguay, Alaska. This company now operates a line from Skaguay to White Pass, Bennett, Caribou, and White Horse, 110 miles. I. W. Dudley is Gen. Agent, 513 Coleman Bldg., Seattle, Wash.

ELECTRIC RAILWAYS.

HOPKINTON, R. I.—Senator John S. Cole, of Hopkinton, has presented in the State Senate a bill providing for the construction of an electric railway system between Westerly and Ashaway. The charter as proposed names Leveritt A. Briggs, William J. Battey, Alexander B. Briggs, Frank Hill and John W. Sweeney as the incorporators, and the capital stock is placed at not exceeding $100,000. It allows the acquisition of property by condemnation proceedings, and also permits the proposed corporation to engage in the manufacture and sale of electricity for heat, light and power. The company will be known as the Ashaway & Westerly R. R. Co. Headquarters are at Hopkinton.

DONORA, PA.—We are officially advised that the Donora & Leidora St. Ry. Co. will let contracts sometime during the spring for building overhead line from Donora to Leidora, 3.3 miles. Surveys have been made and right-of-way obtained. Capital is practically all secured. A 350-ft. viaduct will be built. There will be 38,000 cu. yds. of grading. B. M. Hanna is Pres., 718 Pennsylvania Ave., Pittsburg. R. W. Hervey is Secy., Monongahela, Pa. Gisli Gudmundson is Ch. Engr., Empire Bldg. Previously noted.

NEW WILMINGTON, PA.—Robert M. Russell, Pres. of the proposed New Castle & New Wilmington St. Ry. Co., which will build a line connecting New Castle and this city, states that the financing of the road has been started, and that construction probably will be started by the middle of April or the first of May. Surveys have been made.

FAIRMONT, W. VA.—We are officially advised that F. D. BLODGET & CO., of Wheeling, W. Va., are contractors for the proposed Fairmont & Mannington St. Ry., which will connect these two cities. It will be 16 miles long. Grading is practically completed and five miles of track have been laid. Surveys are made, capital secured and right-of-way obtained. Thomas Fleming is Pres. and S. Miller is Ch. Engr., Fairmont. Noted on Jan. 9.

SISTERSVILLE, W. VA.—E. L. Benton, Engr., informs us that the matter of building an electric railway between Sistersville and Middlebourne, W. Va., 12½ miles, is under consideration by local capitalists. Construction depends upon floating of bonds. Noted on Jan. 2.

FITZGERALD, GA.—The Fitzgerald & Ocilla Railway & Power Co. has been incorporated in Georgia to build an electric railway between Fitzgerald and Ocilla, Ga., and also to furnish power for electric lighting and commercial purposes. Capital stock, $50,000. Incorporators: S. T. Holzendorf, New York, N. Y.; L. C. Holzendorf, Valdosta, Ga.; C. P. Holzendorf, Atlanta, Ga.; R. I. Kirkland, Irwin County, Ga.; C. A. Holzendorf, T. M. Parsons, D. B. Jay and Clayton Jay of Fitzgerald, Ga.; and B. F. Holzendorf, Douglas, Ga. Previously noted.

NEW ORLEANS, LA.—Regarding the New Orleans & Seashore Air Line Ry., which was noted last week, it is announced that it is proposed to erect a large hotel and other resort features at Grand Isle and to develop large districts of swamp lands lying along the proposed route. Besides the main line, which will be 50 miles long, it is proposed to build a branch along Bayou Lafourche from Lockport to the Gulf of Mexico, besides branches east and west from the terminal at Grand Isle. The construction work will be very extensive on account of the character of the territory to be traversed, which will require a large amount of trestle and fill, including a 12-mile pile trestle from Bayou St. Denis to Grand Isle.

MINDEN, LA.—The City Council has granted a 50-year franchise to the Minden Traction Co., which proposes to build and operate an electric railway or a gasoline motor car line in the streets of Minden. It is proposed also to build an amusement park. H. A. Davis and J. B. Story are the promoters. Noted on Dec. 26.

SHREVEPORT, LA.—John Lorenz, of Jackson, Miss., has applied to the City Council for a franchise to construct and operate an electric street railway in Shreveport. It is proposed to connect several new suburban additions with the city, particularly residence sections, and to haul freight and express, as well as passengers.

MASSILLON, OHIO.—Contract for construction of the Massillon, Wooster & Mansfield Traction Co.'s line from Massillon west to Mansfield, Ohio, has been awarded to the NORTHERN ENGINEERING & CONSTRUCTION CO., Cleveland, Ohio. Four miles of grading has been completed between Smithville and Madisonburg. The road will be about 50 miles long and will serve the towns of Dalton, Orrville, Smithville, Madisonburg, Wooster, Reedsburg, Jeromeville and Hayesville. G. A. Bartholomew is Ch. Engr., 1423 Williamson Bldg., Cleveland. Capital stock, $10,000. The following are the Directors: C. V. Hard, M. L. Smyser, N. Amster, A. J. Heller, of Orrville; John C. Schultz, E. S. Landes, A. D. Metz, H. H. Freedlander and D. F. Griffith of Orrville. The officers of the company are as follows: Pres., C. V. Hard; Vice-Pres., M. L. Smyser; Secy., E. S. Landes, and Treas., N. Amster. Noted on Sept. 5, 1907.

SOUTH BEND, IND.—The Kalamazoo, Elkhart & South Bend Traction Co. has secured all right-of-way and franchises for an electric line to connect the cities named in the title, a distance of 73 miles. The private right-of-way is 50 to 100 ft. wide. Surveys, maps, profiles and estimates have been completed. The company is in a position to furnish 25% of the cost of construction and equipment and to begin work within 30 days after the road is financed. The following officers were elected at a recent meeting: Pres., A. D. Harris; First Vice-Pres., J. M. Caulfield; Second Vice-Pres., H. C. Morgan; Secy., E. C. Vincent; Treas., A. Hunsberger; Auditor, J. A. Bowman; Attorney, F. E. Lambert.

CARTHAGE, ILL.—Paul A. Neuffer, Harry H. Phillips, James E. Hauronic, Charles J. Horn, B. E. Clark and Rollo M. Cole, all of Chicago, have incorporated the Western Illinois & Iowa R. R. Co. to construct an interurban railway in Hancock County. The capital is $2,500,000.

WOODSTOCK, ILL.—Plans are under way for building the Woodstock, Marengo, Genoa & Sycamore Elec. Ry. It will run from Woodstock to Marengo, Genoa and Sycamore. Charles A. Spenny is Secy., Chicago.

RED BUD, ILL.—The Red Bud & Belleville Interurban Ry. Co. has been incorporated in Illinois to construct an interurban railway from Red Bud in Randolph County, through Monroe and St. Clair Counties to Smithton, Ill. Capital stock, $2,000. Incorporators: Conrad Becker, Charles C. Smith, Herman Schryver, Red Bud; John Keller, Hecker, Ill.; B. A. Gundlach, Belleville, Ill. Noted on Dec. 26.

CHICAGO, ILL.—The Chicago Union Traction system, after nearly five years of receivership litigation, was sold on Jan. 25 at auction by Master in Chancery Henry W. Bishop of the United States Circuit Court under the order of Judge Grosscup. The buyer and only bidder of the properties was the Chicago Railways Co., represented by Attorneys Louis C. Krauthoff, 205 La Salle St.; George Wickersham and John C. Hately, who acted for the protective committee representing more than 95 per cent. of the owners of stocks, bonds and receivers' certificates in the various companies involved in the north and west side lines. While the separate bids amount to $2,090,000, the offer at the close of the bidding was $2,000,000 for the property in its entirety. Attorney Krauthoff announced that Judge Grosscup would pass upon the question of whether the parcel price or the bulk price is to be paid for the properties. The property of the Union Traction System was valued by the experts during the drafting of the new traction ordinance at $29,000,000.

The following are the bids for the properties of the various companies at the sale: West Chicago St. Ry. Co., $500,000; North Chicago St. R. R. Co., $300,000; Union Traction Co., $150,000; Chicago West Division Co., $500,000; Chicago Passenger Ry. Co., $100,000; Chicago West Division Tunnel Co., $200,000; North Chicago City Railway Co., $300,000; for various law claims, $15,000; for all property which may have been overlooked or which may be claimed, $25,000; total, $2,090,000. The new Chicago Railways Co. will also expend $12,000,000 upon rebuilding the lines, new cars and power houses.

CLINTON, IOWA.—Thomas J. Wilcox, Clinton, Pres. of the Central Ry. Co., of Iowa, advises us that surveys have been made for the railway. It will be 87 miles in length and will run from Clinton to Dubuque, via Maquoketa and Cascade. Right-of-way is partly obtained but terminals have been secured. B. Franklin, 1420 Chestnut St., Philadelphia, is Engr. Contracts will be let during the coming summer. Noted on Jan. 9.

ST. PAUL, MINN.—The St. Paul, Minneapolis & Seattle Electric Ry. Co. has been incorporated in Minnesota to build an electric railway from St. Paul and Minneapolis, Minn., to the Pacific Coast, with branches extending to Fargo, N. Dak., and Aberdeen, S. Dak. Capital stock, $500,000,000. Incorporators: William C. Webber, Rochester, Minn.; David Phillips, Mazeppa, Minn.; Samuel A. Phillips, James Mossop, St. Paul; Glenn W. Martens, Pierre, S. Dak. The headquarters of the new company will be in the New York Life Bldg., St. Paul.

ST. JOSEPH, MO.—We are informed officially that the Missouri Valley Traction Co. proposes to build an electric railway from St. Joseph, Mo., to Excelsior Springs, via Starfield, Lathrop and Lawson; also a branch from Lathrop to Mirabile, a total of 65 miles. Company has secured capital for preliminary work only. Date for letting contracts is indefinite. Surveys are under way. Right-of-way is partly obtained. The officers are Thos. B. Campbell, Pres.; Judge L. L. Frost, First Vice-Pres.; W. A. J. Bell, Second Vice-Pres.; A. M. Bates, Treas.; H. G. Krake, Secy.; C. W. Campbell, Ch. Engr. Principal place of business, Board of Trade Bldg., St. Joseph. Previously noted.

FORT SMITH, ARK.—The Fort Smith, Checotah & Shawnee Interurban Ry. Co. plans to begin actual construction work on its railway this year. The length of the road will be 160 miles and it will connect Fort Smith, Ark., and Checotah, Okmulgee and Shawnee, Okla. Capital stock, $500,000. Headquarters are located in Checotah. The officers are: R. B. Hutchinson, Checotah, Pres.; R. O. Smith, Vice-Pres.; L. F. Cata, Secy.; R. D. Martin, Treas.; W. M. Duffy, of Checotah, General Solicitor. Noted on Jan. 16.

ENID, OKLA.—A 50-year franchise has been granted to George W. Bear for an electric line from Enid to Blackwell, Okla. Work may be started within three months.

KENNEWICK, WASH.—The Northern & Southern Electric Ry. Co.'s surveys, which have been approved by the General Land Office, for a line to the Columbia River from Kennewick to Waterville have been filed in the United States Land Office at Kennewick. The officials announce that construction work on the line will begin early in the spring, long stretches of right-of-way having already been secured. W. R. Rust, of Tacoma, is Pres.; M. B. Haynes, Vice-Pres.; E. H. Guie, Secy., and H. K. Owens is Ch. Engr. The road will be standard-gage, 136 miles in length, connecting with five transcontinental lines when constructed. Noted fully on Jan. 16.

GRANGER, WASH.—A plan to build an electric railway from Granger to North Yakima, via Parker and Zillah, is being promoted by W. N. Granger, H. H. Lombard, J. H. Thomas, A. B. Wilcox, F. G. Page, G. P. Eaton and C. H. Putnam, of North Yakima, Wash.

SEATTLE, WASH.—Application has been made to the King County Board of Commissioners by F. X. Waldron & Co. for use of highways for building an electric light and power plant and electric railway to Vashon Island, Wash. J. P. Agnew is County Audr.

PASADENA, CAL.—Horace M. Dobbins, Pres. of the Pasadena Cycleway Association, has announced that he is at the head of a company that has been capitalized at $5,000,000 for the construction of an electric railway between Pasadena and Los Angeles. It would be three miles shorter than the present short line of the Pacific Electric Railway Co.

HANFORD, CAL.—F. S. Granger has been granted an electric railway franchise by the Board of Supervisiors.

COBALT, ONT.—The Nipissing Central Elec. Ry. Co. plans to let contracts in May or June for the proposed line from Cobalt to New Liskeard, Ont., twelve miles, via Argentite, North Cobalt and Haileyburg. A line from Latchford to Cobalt is also contemplated, but surveys have been completed only from Cobalt to New Liskeard. The right-of-way and municipal franchises are now being negotiated for. John Fitzpatrick, Ottawa, is Pres. Noted on Dec. 26 and Nov. 28.

GODERICH, ONT.—By-law has been passed guaranteeing the bonds of the Ontario & West Shore Electric Ry. to the extent of $150,000. The various guarantees now amount to $400,000 and the company is authorized to issue bonds up to $15,000 a mile for about 35 miles of track. This company will apply at the next session of the Ontario legislature for an act approving the by-laws whereby the towns of Goderich, Kincardine, Ashfield, Huron and Colborne guarantee bonds to the extent of $400,000, and agreements respecting the company's right to build and operate its railway on certain streets in those towns. Also for an act empowering this company to extend its proposed railway from Grand Bend, Stephen, through Usborne, southeasterly through Blanshard and Biddulph, thence southerly and westerly through West Nissouri or London township to London city; and to construct a branch line from Usborne or Blanshard in an easterly direction to St. Mary's, thence easterly through Downie to Stratford. Also to extend the time for payment of 15 per cent. of the capital stock to May 14, 1909, and to extend the time for the completion of the railway to 1912. M. G. Cameron, of Goderich, is interested.

CIUDAD PORFIRIO DIAZ, COAHUILA, MEX.—The government of the State of Coahuila has approved the contract, which was entered into by Dr. Lorenzo Cantu, of Ciudad Porfirio Diaz, for the establishment of a street railway system in that city. For the present, the line will be a narrow-gage, the cars to be drawn by mules, but permission has been granted to change this to an electric system and broad-gage as the needs of the town may demand.

LIGHT AND POWER PLANTS.

PORTSMOUTH, N. H.—Bids were received as follows Feb. 1 at the office of the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a radial brick chimney for the power house, at the Navy Yard, Portsmouth, N. H.: Alphonse Custodis Chimney Construction Co., 95 Nassau St., New York, $3,725, on Dept.'s specifications, $3,260 on bidders' specifications; H. R. Heinecke, Inc., 147 Fourth Ave., New York, $3,995; M. W. Kellogg Co., 143 Liberty St., New York, $3,620; Heine Chimney Co., 79 Dearborn St., Chicago, Ill., $4,138, $3,638.

HAVERHILL, MASS.—The Haverhill Electric Co. has decided to commence the work of placing its wires underground as soon as the weather will permit. The cost of the entire work is estimated at [illegible]0,000. A. B. Tenney, 84 State St., Boston, Mass., is Gen. Mgr.

NEW BRITAIN, CONN.—The stockholders of the Stanley Works Co., Myrtle St., have voted to adopt the amendment to its charter granted by the last Legislature, which gives the company authority to transmit electricity from Kent to operate and light its plant in New Britain. The amendment also authorizes the company to increase its capital stock from $1,500,000 to [illegible]000,000. The company is planning to erect a hydro-electric plant on the Housatonic River at Kent. W. H. Hart is Pres.

SOUTHFIELDS, N. Y.—We are officially advised that a water-power is being developed on the Mombashaw River near the Sterling furnace. A concrete dam is now being constructed; the power station is to be located in the old furnace. H. von Schon, Consult. Engr., of Detroit, Mich., prepared the plans and is superintending the construction. The current will be utilized at Southfields, N. Y.

NEW YORK, N. Y.—For electric elevators, motors, etc., see under Miscellaneous Contracts.

*ATLANTIC CITY, N. J.—Bids are asked by the City Clerk until 8.30 p. m., Feb. 24, for constructing lighting standard foundations and electric lighting standards: The City Engineer's estimate of quantities by which the bids will be tested is as follows: 78 foundations for corner lighting standards; 200 foundations for intermediate lighting standards; 7,000 sq. ft. cement pavement laid or relaid; 78 corner lighting standards erected; 200 intermediate lighting standards erected. J. W. Hackney is City Engr.; John Donnelly is Chn. Lighting Com.

*PARK RIDGE, N. J.—Bids are asked until Feb. 17 for improvements in the electric lighting station, to include rebuilding dyke well, reinforcing and raising height of dam, building concrete spillway, a 30-KW. gasoline driven direct connected unit, and for grading and filling around storage reservoir. A. B. Methudy is Boro. Clk.; George T. Hanchett is Engr., 237 Fulton St., New York, N. Y.

PITTSBURG, PA.—Additions and improvements are contemplated by the New South Pittsburg Light & Power Co., it is stated, including the installation of a 3-phase, 60-cycle, 2300-volt system and extending its transmission lines to Dedford, Copenhagen and Bridgeport. C. A. Sutliff is owner and Mgr.

CHAMBERSBURG, PA.—The directors of the Chambersburg, Greencastle & Waynesboro Street Ry. Co. have awarded the contract for the additional electrical machinery and other equipment for the extension from Greencastle to Chambersburg to the WESTINGHOUSE ELECTRIC & MFG. CO., of Pittsburg, Pa., through the J. G. Schaff Electrical Co., of Chambersburg. J. MacWolff, Waynesboro, Pa., is Gen. Mgr.

WASHINGTON, D. C.—Bernard R. Green, Supt. of Constr. of the new National Museum Building, Washington, D. C., has awarded contract for electric wiring in the building to LORD ELECTRIC CO., 213 West 40th St., New York, at $74,777. Bids were opened Jan. 21.

WHEELING, W. VA.—We are officially advised that the Mozart Improvement Co. has been incorporated with a capital stock of $100,000, to build and operate electric power plants. The plant will be located at Mozart Terrace and will be operated by gas engine. It is to be used for power and light purposes. H. L. Hesse is Secy.-Treas.

CLINTON, N. C.—The Clinton Electric Light & Power Co. has been reorganized and the capital stock has been increased. New machinery will be installed in the power plant. The officers of the company are: A. D. O'Brien, Pres.; D. L. Bonny, Vice-Pres.; A. McD. Graham, Secy. and Treas.

FAIRMONT, S. C.—The owners of the Tyger Cotton Mills are contemplating the construction of an additional plant to cost about $300,000. The company has purchased water power property for $10,000, which will be developed to furnish power to operate the proposed mill.

VIDALIA, GA.—The city will construct an electric light plant. J. B. McCRARY & CO., Empire Bldg., Atlanta, Ga., have been awarded contract and will begin construction work soon.

MONTEVALLO, ALA.—See under Manufacturing Plants.

WARREN, OHIO.—The Council has decided to secure estimates for the construction of a municipal electric lighting plant, and in case this can be built and operated at a lower rate per lamp than the city is paying at the present tme, it will be built this summer. No engineer has been retained.

LA FAYETTE, IND.—Plans are being made by Prof. J. W. Erstertine, of Purdue University, La Fayette, for the construction of an electric light plant to be operated in connection with the municipal water works.

NOBLESVILLE, IND.—We are officially informed that the water power plant which was partially built near this point in 1904 is to be completed this year in accordance with revised plans now being prepared by H. von Schon, Consult. Engr., of Detroit, Mich. Noblesville, which is three miles from the development, will take all the current.

ALPENA, MICH.—The THORNE ELECTRIC CO., of Bay City, has secured the contract for installing a system of electric lamps and motor equipment in the plant of the Huron Cement Co., at Alpena, at a cost of about $30,000.

OWOSSO, MICH.—At a meeting of the Owosso Light & Power Co., the following named officers were elected: E. M. Hopkins, of Detroit, Pres.; Charles W. Gale, Vice-Pres.; Frank Westcott, of Owosso

Secy. and Treas. The company announces that it will construct a dam 24 ft. high and 800 ft. long at a natural reservoir on the Shiawassee River, 2½ miles north of the city. The plant will furnish electrical energy to operate the proposed Grand Rapids-Pontiac railway, and for lamps and motors in Owosso.

*CHICAGO, ILL.—Bids are asked by James Knox Taylor, Supervy. Arch., Treasury Department, Washington, D. C., until 3 p. m., Feb. 24, for brackets for the U. S. post-office, courthouse, etc., at Chicago.

FORT DES MOINES, IOWA.—Bids are asked until 3 p. m., Feb. 12, by Capt. John J. Boniface, Constr. Q. M., U. S. A., for furnishing and installing electric wiring, electric fixtures, etc., in the addition to subsistence storehouse, and shelter for mounted guard at this post.

Bids are asked until 3 p. m., Feb. 24, by Capt. John J. Boniface, Constr. Q. M., for furnishing and installing electric wiring, electric light fixtures, etc., complete in a double set of captains' quarters, and two sets of lieutenants' quarters to be constructed at Fort Des Moines.

ST. PAUL, MINN.—The contract for heating and lighting the county jail, furnishing power to run elevators, etc., for three years has been awarded to ST. PAUL GAS & LIGHT CO., Sixth and Jackson Sts., St. Paul, at $3,780 a year. Edward G. Krahmer is County Audr. Bids were opened Jan. 20.

JACKSON, MINN.—Bids are asked by the County Board of Jackson County until 11 a. m., March 4, for electric light fixtures for the new court house now building in said county. H. G. Anderson is Chn.; P. D. McKellar is County Audr.

GREAT FALLS, MONT.—Press reports state that the Commercial Gas & Electric Co., Rector Bldg., Chicago, Ill., will secure a franchise and will construct a gas plant in Great Falls. Charles U. Gordon is Treas. of the C. G. & E. Co., Chicago.

NEVADA, MO.—The Missouri Water, Light & Traction Co., Nevada, Mo., will place contracts during the next few weeks for the installation of the following apparatus: Two 225-HP. water-tube boilers, 600-HP. exhaust steam heater, 600-HP. live steam water purifier, and the necessary piping. Hiram Phillips is Receiver.

AGUILAR, COLO.—It is stated that the town officials have granted the Hawkins & Barnett Machine Co., of Trinidad, a franchise to supply electrical energy for lamps and motors in Aguilar. The company will begin the construction of an electric light plant soon, of sufficient output to meet the local demands, and to furnish electricity for both lamps and motors to adjacent coal mines. The cost of the plant is estimated at $25,000.

SEATTLE, WASH.—Bids are asked until Feb. 15, by C. B. Bagley, Secy. Bd. of Pub. Wks., for the construction of a system of cluster lights on Third Ave., at an estimated cost of $51,200, upon the following approximate estimate of quantities: Sub-division No. 1. 1,000 cu. yds. excavation; six manholes; one manhole, special; 70 handholes; 700 sq. yds. pavement repair; 810 sq. yds. concrete sidewalk construction; 930 sq. yds. concrete sidewalk reconstruction; 2,500 ft. B. M. wood walks construction; 8,000 ft. B. M. wood walks relaying. Conduits—Black pipe: 15,775 duct ft. in concrete; 39,700 duct ft. in earth; 5,280 duct ft. in area ways. Loricated: 15,775 duct ft. in concrete; 39,700 duct ft. in earth; 5,280 duct ft. in area ways; 126 poles; 20 junction boxes.

Sub-division No. 2. Seven transformers; 2,225 lin. ft. primary cables Duplex No. 4; 10,500 lin. ft. secondary cables.

McMINNVILLE, ORE.—Plans are being made for improvements and extensions to the municipal electric light plant, which will include the rebuilding of the plant and rewiring the entire overhead system. Clarence Edwards, of Newberg, will have charge of the work. J. M. Duncan is Supt.; H. J. Pearson is Ch. Engr.

PORTLAND, ORE.—The Portland, Eugene & Eastern Ry., Portland, which proposes to build an electric railway from Eugene to Springfield, Ore., has filed notice of an appropriation of 2,000 ft. of water per second from the McKenzie River at the point of its proposed hydro-electric power plant. A. Welch, of Portland, is interested.

GRESHAM, ORE.—The Portland Railway, Light & Power Co., and the Mount Hood Railway & Power Co. have each applied for franchises to erect, maintain and operate a light, heat and power service in Gresham. O. B. Caldwell, Portland, is Elec. Engr., P. R., L. & P. Co.

SAN JOSE, CAL.—The contract for lighting the streets for five years has been awarded to the UNITED GAS & ELECTRIC CO., of San Jose, at $2.50 a lamp per month for 300 lamps of 2,000 c.-p. to 1 a. m. on moonlight schedule and 8% discount on all new lamps; all night lamps moonlight schedule, $3.50 a month, and all night lamps every night, $6.30 a month. Roy E. Walter is City Clk.

QUINCY, CAL.—The Quincy Electric Light Co. is preparing to install a plant as soon as conditions in the spring will allow it. The new plant will have a capacity of 2,500 lights of 16 c.-p. G. F. Gansner, Quincy, is Mgr.

BOISE, IDAHO.—Plans are being made by the Capital Electric Light, Motor & Gas Co. to commence active work on the Ox Bow project on the Snake River, near Huntington. It is stated that work will soon be started on the construction of a transmission line 65 miles in length to connect with the plant near Huntington, which will connect Meridian, Emmett, Payette and Weiser. It is proposed to build an additional line from Weiser 50 miles in length to make complete connection with the plant after the first line has been constructed. J. W. Cunningham, Boise, is Mgr.

SPIRIT LAKE, IDAHO.—See under Manufacturing Plants.

KENORA, ONT.—It is stated that the plant of the Maple Leaf Flour Mills, recently destroyed by fire, at a loss of $300,000, will be rebuilt.

EUGENIA, ONT.—We are advised by H. von Schon, Consult. Engr., of Detroit, Mich., that the tunnel for the water power development of the Georgian Bay Power Co. at this point, which was started in 1905, has been successfully completed. The dam and power house will be built this year. Mr. von Schon has charge of this undertaking. Considerable 54-in. steel plate pipe will be required. The purpose of this development is transmission to Owen Sound, 35 miles distant.

PUENTE DEL PASO, MEX.—Fernando Iglesias has advised the Federal Government that he will install a hydro-electric plant on the El Clifton River, near this town.

BRIDGES.

(* *denotes that this work is advertised in Engineering News.*)

BOSTON, MASS.—The contract for replacing the steel highway bridge over the Boston & Albany R. R. tracks in Washington St. has been awarded to the NEW ENGLAND STRUCTURAL CO., 110 State St., Boston.

FITCHBURG, MASS.—A reinforced concrete or granite arch bridge will be constructed at Depot St. The structure will be one span of 70 ft. and 50 ft. wide. David A. Hartwell is City Engr.

CAMBRIDGE (Boston post-office), MASS.—The contract for rebuilding the bridge over Broad Canal, in First St., was awarded on Jan. 28 by the city to the CAHILL CONSTRUCTION CO., 7 Water St., Boston, at $7,660.

LEROY, N. Y.—We are officially advised that C. L. Simkins, Mgr. Battle Creek Bridge Co., Battle Creek, Mich., has completed plans for a reinforced concrete bridge at Leroy. Estimated cost, $16,000.

ELIZABETH, N. J.—The following bids were received on Jan. 29 by the Committee of the Board of Chosen Freeholders of Union County for a Strauss bascule lift bridge, 25 ft. wide by 60 ft. span, in the clear, over the Elizabeth River at South First St.: Roehmheld Construction Co., Chicago, Ill., $26,773; Toledo-Massillon Bridge Co., Toledo, Ohio, $30,670; McHarg-Barton Co., 290 Broadway, New York, $27,440; A. E. SANDFORD CO., Second National Bank Bldg., Hoboken, N. J., $24,949 (awarded contract). Jacob L. Bauer is County Engr.

HARRISBURG, PA.—The Council has passed an ordinance appropriating $6,000 for the construction of a concrete bridge at Hemlock St.

WASHINGTON, D. C.—The Senate has passed a bill introduced by Senator John W. Daniel, of Virginia, authorizing the construction of a memorial bridge, not to cost more than $5,000,000, from the most convenient point of the former Naval Observatory grounds, or vicinity, across the Potomac River to the Arlington estate.

RICHMOND, VA.—Charles E. Wingo, Richmond, and Willie C. Pulliam, Manchester, Va., contemplate incorporating the Manchester & Richmond Free Bridge Co. to construct a bridge from Richmond to Manchester.

CHARLES CITY, VA.—The County Supervisors contemplate having a bridge constructed over the Chickahoming River.

BIRMINGHAM, ALA.—The Board of Revenue has awarded the contract for the construction of a bridge at Rainy Ford, on Valley Creek, to the JOLIET BRIDGE & IRON CO., Joliet, Ill.

NORFIELD, MISS.—E. P. ALSBURY & CO., Houston, Tex., have been awarded the contract for the construction of a steel bridge across the Bogue Chitto River.

ALEXANDRIA, LA.—THE MILWAUKEE STEEL CONSTRUCTION CO. has been awarded the contract for the construction of a steel highway bridge on concrete piers at the "Race Track" crossing of Bayou Rapids, at $3,888.

*NASHVILLE, TENN.—We are officially advised that the following bids were received on Jan. 22 by the Cumberland River Bridge Commission for superstructures for (a) the Sparkman St. bridge and (b) the Jefferson St. bridge; (c) grand total (grand total is sum of listed bids in some cases, in other cases it does not agree with listed bids, but is lump sum for entire work): The FOSTER & CREIGHTON CO., Nashville, (a) $144,830, (b) $128,900, (c) $271,430 (awarded contract); Phoenix Bridge Co., Phoenixville, Pa., (a) $157,120, (b) $139,634, (c) $296,754; King Bridge Co., Cleveland, Ohio, (a) $175,200, (b) $159,500, (c) $334,700; Central States Bridge Co., 601 Beecher St., Indianapolis, Ind., (a) $164,500, (b) $149,150, (c) $313,650; Strobel Steel Construction Co., Monadnock Bldg., Chicago, Ill., (a) $184,199, (b) $167,376, (c) $351,575; Virginia Bridge Co., Roanoke, Va., (a) $164,146, (b) $146,629, (c) $310,775; Pennsylvania Steel Co., Steelton, Pa., (c) $304,890; Midland Bridge Co., 622 Gibraltar Bldg., Kansas City, Mo., (a) $198,849, (b) $176,471, (c) $361,122; Toledo-Massillon Bridge Co., Toledo, Ohio (a) $173,335, (b) $157,770, (c) $308,950; Nashville Bridge Co., Nashville, (incomplete). H. M. Jones is Engr., Comn.

BARBOURVILLE, KY.—Knox and Whitley Counties contemplate the construction of a steel bridge across the Cumberland River at Tye's Ferry, to connect the two counties at that point. Estimated cost, $15,000.

DAYTON, OHIO.—The Board of Public Service on Jan. 15 opened bids as follows for constructing the Wolf Creek bridge: A. F. Fox, $8,490; Shafor & Dill, $8,875; E. M. Gerhart, $8,925.

CLEVELAND, OHIO.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of a through latticed girder bridge over the Baltimore & Ohio R. R. tracks at Clark Ave., Southwest. Bids are asked until Feb. 10. A. R. Callow is Secy. Bd. Pub. Wks.

Bids are asked by the Board of Commissioners, Cuyahoga County, until 11 a. m., Feb. 26, for the construction of a steel concrete bridge, Brooklyn Township. Julius C. Dorn is Clk. Bd.

INDIANAPOLIS, IND.—W. C. SMITH has beeen awarded the contract for the construction of two reinforced concrete culverts, in Decatur Township, at $3,275. Blaine H. Miller is City Engr.

BORDEN, IND.—Bids are asked until Feb. 15 by the Board County Commissioners at Jeffersonville for constructing an iron bridge, piers and abutments over Muddy Fork, of Silver Creek, at Borden. Peter Nachand is Co. Audr.; John Scheller is Chn. Bd.

EAST ST. LOUIS, ILL.—The East St. Louis & Suburban Electric R. R. Co. will have two bridges erected on the St. Clair turnpike. Bids are asked. H. F. Merker is Engr. M. of W., East St. Louis; W. J. Crocken, C. E., is Engr. Drainage Comn.

MILWAUKEE, WIS.—The ordinance providing for the issue of $200,000 bonds for the construction of the bascule bridge at West Water St. has been approved by the Council Finance Committee. Charles G. Poetsch is City Engr.

SUPERIOR, WIS.—A bridge to connect Superior and West Duluth may soon be constructed.

FAIRFIELD, IOWA.—The County Commissioners will have a bridge erected over Cedar Creek at Locke's Ford, eleven miles southeast of the city.

WATERLOO, IOWA.—We are officially advised that bids are asked until 7 p. m., Feb. 19, by the city for the construction of a steel and concrete arch bridge across Cedar River to consist of 8 70-ft. arches with 40-ft. roadway and two 8-ft. walks; also one 60-ft. arch across Virden Creek with 36-ft. roadway and two 7-ft. walks, also two abutments and three piers for the erection of a steel truss bridge across Cedar River, the truss spans to be taken down form the location in which the arch bridge will be constructed and reerected in a new location. All of the work to be of concrete steel construction. C. T. Wilson is City Engr.

WATERTOWN, MINN.—Bids are asked by J. F. Boylan, Village Recdr., until March 31 for 7,000 ft. of sound white oak bridge plank, 3 ins. thick and 16 ft. long.

ST. PETER, MINN.—Plans are being prepared by L. W. Rundlett, Consulting Engr., for the construction of a steel and concrete bridge across Spring Lake here. Estimated cost, $10,000. Henry Benson is City Clk.

FERGUS FALLS, MINN.—Bids are asked until March 6 by the City Council for furnishing material and constructing a reinforced-concrete bridge over the Red River of the North, on Mill St. C. A. P. Turner, The Phoenix, Minneapolis, is Engr.; G. H. Gard is City Clk.

GRANITE FALLS, MINN.—The Yellow Medicine County Board contemplates having a bridge constructed across the Minnesota River. Estimated cost, $3,000.

HAYS, KAN.—Bids are asked by Johan Johansen until 2 p. m., Feb. 8, for the construction of seven low water pile bridges; also for repairs to the Dalton bridge.

GRAND ISLAND, NEB.—Bids are asked by C. H. Poell, County Clk., Hall County, until noon, Feb. 18, for the construction of wooden, metal and cement bridges for the ensuing year.

NELIGH, NEB.—Bids are asked until noon, March 3, at the County Clerk's office, for steel bridges from 20 to 100 ft. in length, to be on yearly contract for the year 1908. W. H. Morgan is Chn. Com. on Roads and Bridges.

GREAT FALLS, MONT.—We are officially advised that bids were received on Jan. 30 by Board of County Commissioners of Cascade County for the construction of the following bridges: One steel truss, 120 ft. span center to center, across Belt Creek at the Hackshaw site; one steel truss, 75-ft. span center to center, across the Muddy Creek, at Vaughn; one steel truss, 75 ft. span center to center, across Simms Creek, at Simms. One steel truss, 60-ft. span, across Bird Creek; one rolled beam bridge, 20-ft. opening, across the Little Muddy River, east of Vaughn. All bridges to have a clear roadway of 16 ft. and to be designed for a live load of 1,600 lbs. per lin. ft. The contract for the above work has been let to the MIDLAND BRIDGE CO., Gibraltar Bldg., Kansas City, Mo., at $11,170. David M. Wood, Great Falls, is County Clk.

JOPLIN, MO.—Bids are asked by the city until Feb. 10, for the construction of a viaduct, estimated to cost about $50,000. Hiram Phillips is City Clk. J. B. Hodgdon is City Engr.

POWHATAN, ARK.—A 200-ft. steel drawbridge will be constructed over the Black River at Powhatan for the Lawrence County R. R. Co. Estimated cost, $75,000. Noted Jan. 30 under Railways.

SKAMOKAWA, WASH.—Bids are asked by the Board of County Commissioners until Feb. 17, for the construction of two bridges, one 32 ft. long, and one 42 ft. long, on the East Valley road.

WENATCHEE, WASH.—Bids are asked until 10 a. m., March 3, by John Godfrey, Clk. County Comrs., for the construction of a trestle bridge across a dry gulch at the terminus of county road No. 175, Section 14.

PORTLAND, ORE.—The following bids were opened on Jan. 24 by the Executive Board for the construction of a bridge across Sullivan's Gulch, at Union Ave.: Minneapolis Steel & Machinery Co., Minneapolis, Minn., $64,849; Midland Bridge Co., 662 Gibraltar Bldg., Kansas City, Mo., $69,793; Northwest Bridge Co., $64,950; International Construction Co., $73,560; Burrell Bridge and Construction Co., $67,780; Robert Wakefield, Portland, $67,025; Paquet & Gleblsch, $69,930.

ST. GEORGE, UTAH.—Bids are asked until noon, Feb. 10, by the County Commissioners, at the office of the City Clerk, for the construction of a steel bridge across the Virgin River near St. George. F. L. Daggert is Chn. Comrs.

*BRANDON, MAN.—Bids are asked by Harry Brown, City Clk., until noon, Feb. 20, for (a) reinforced concrete bridge with approaches, (b) steel bridge with approaches, over the Assiniboine River, at First St.

EDMONTON, ALTA.—The City Council, the City Council of Strathcona and the Canadian Pacific Ry. Co. have arrived at a definite understanding regarding the construction of the high level bridge here to be built by the Canadian Pacific Ry. Co., at a cost of $800,000. William Whyte, Winnipeg, Man., is Second Vice-Pres.

VANCOUVER, B. C.—J. A. L. Waddell, 2708 Forrest Ave., Kansas City, Mo., has been engaged by the city to prepare plans for the construction of bridges across False Creek. N. A. Clement is City Engr. Noted Jan. 23.

*MONTEREY, N. L., MEX.—Bids are asked by Alfred Giles, Arch., San Antonio, Tex., until Feb. 15, for erection of a two 74-ft. 2-in. clear span reinforced-concrete bridge over the Santa Catarina River, Monterey, N. L., Mex. Width of center pier, 6 ft. 8 ins.; bank to bank, 155 ft.; bed of river to floor of bridge, 15 ft.; width of bridge, 60 ft.; to carry 200 lbs. per ft. live load; safety factor of 5 (a market will be built on bridge, thus needing this large live load). No rail or ornamental work required. The entire river bed is very fine hard gravel, needing only to be screened. River has water only in wet weather. Abutments and center pier to be bid for at per cu. yd., the spans at a lump sum.

Bids are asked until Feb. 13, by Alfred Giles, Arch., San Antonio, Tex., for the construction of a steel superstructure of a two 74-ft. 2-in. span bridge over the Santa Catarina River, Monterey, N. L., Mex. Center pier 6 ft. 8 ins. in thickness; from abutment to abutment 155 ft.; center pier and abutments will be ready for bridge, which is to carry a roadway of 33 ft., and on each side a row of stores, and on one side a 13-ft. space for a street railway. Total width of bridge, 60 ft.; to be ready to receive concrete floor 6 ins. thick. The live load, including stores, to be estimated at 200 lbs. per sq. ft., with a safety factor of 4; 15 ft. from river bed to floor of bridge.

BUILDINGS.

(* *denotes that this work is advertised in Engineering News.*)

LYNN, MASS.—Plans by Wheeler & Betton, Archs., 59 Exchange St., Lynn., are being considered for remodeling the City Hall, at a cost of about $50,000. Plans provide for new offices, new plumbing, lighting, etc. Thomas L. Porter is Mayor.

FALL RIVER, MASS.—We are officially advised that bids will be received in about six weeks for constructing a group of five hospital buildings for contagious diseases, for the City of Fall River, to cost about $150,000. Louis G. Destremps & Son, Bennett Block, Fall River, are Archs.

*FORT ANDREWS (Boston post-office), MASS.—Bids are asked until 10 a. m., March 3, by Capt. Ira L. Fredendall, Constr. Q. M., for the construction, plumbing, heating and electric wiring of additions to brick hospital at Fort Andrews, Peddock's Island, Boston Harbor.

HARTFORD, CONN.—Bids are asked until 11 a. m., Feb. 10, by the Board of Contract and Supply at the Mayor's Office, City Hall, until 11 a. m., Feb. 10, for constructing eleven portable polling houses, nine of which shall be 18½ × 28 ft. and two 18½ × 35 ft. Also for the furnishing and renting of eleven houses as above, for the city's use.

NEW YORK, N. Y.—Bids are asked by Foster Crowell, Comr. of Street Cleaning, until noon, Feb. 10, for furnishing building materials for the Boros. of Manhattan, the Bronx and Brooklyn.

Albert J. Schwarzler, Archt., 1340 Brook Ave., advises us that he is designing 14 5-story brick tenements, 37.6 × 68 ft. each, to be built by himself at Clay Ave., 35 ft. from 169th St. Contracts will be let in about 30 days.

We are officially advised that the following contracts have been let for constructing passenger stations for the Harlem River & Portchester R. R. Co.: Winchester Ave. and Hunt's Point stations, R. J. MAHONEY, 1133 Broadway; Port Morris, GEORGE VASSAR'S SONS & CO., 1170 Broadway; Morris Park, C. E. DEACON. All buildings will cost about $50,000 each, and will be of about the same design. Cass Gilbert, 11 East 24th St., is Arch.

NEW YORK, N. Y.—Robert D. Kohn, Arch., 170 Fifth Ave., New York, advises us that the general contract for constructing the Spero building, at 19 to 27 West 21st St., which includes mason, carpenter, ornamental iron and sundry other work, has been awarded to CHARLES A. COWEN & CO., 1123 Broadway. The contract for furnishing and erecting the steel work has been awarded to the HAY FOUNDRY & IRON WORKS, 114 East 28th St. The plans and specifications for the latter work were prepared by Weiskopf & Stern, 68 William St. The contracts for plumbing, heating, electric fixtures, elevators, sprinkler and mail chute have not been signed as yet.

SYRACUSE, N. Y.—We are officially advised that a 2-story brick building, 225 × 157 ft., will be erected. The plans are being prepared by Archimedes Russell, Snow Bldg., and upon completion will be submitted to the State Board of Charities. The building will be owned by Onondaga County. M. D. Rubin, Grand Opera House Block, is a member of the Com. on care of County Bldgs. Cost, $100,000.

JAMAICA, N.Y.—Tuthill & Higgins, Archs., 359 Fulton St., Jamaica, probably will be selected as architects for the Carnegie library building on Clinton Ave., for the Queens

Borough Library Trustees. It will cost $40,000. A library building will also be erected at Long Island City later.

MECHANICSVILLE, N. Y.—Jared S. La Dow, Arch., has completed plans for a 6-story theater and arcade building for Mechanicsville, to cost $70,000.

*OSSINING, N. Y.—The Commission on New Prisons gives notice that the furnishing of designs, plans, specifications and estimates for construction of buildings for a new prison plant to take the place of Sing Sing Prison, is now open to public competition, under rules and regulations adopted by said Commission. The buildings are to be erected upon a site selected by the Commission, on the west bank of the Hudson River near Iona Island. A copy of the rules and regulations may be had upon application to George McLaughlin, of the Comn., Capitol, Albany, N. Y. Architects desiring to enter this competition should signify their intention in writing, addressed to the Secretary, on or before Feb. 15.

NEW YORK, N. Y.—For electric elevators, see under Miscellaneous Contracts.

*ROCHESTER, N. Y.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., March 12, for construction, complete, except elevator, of extension to the U. S. post-office, etc., at Rochester. Bids for this work were advertised in the issue of Jan. 30 to be opened March 8.

NEWBURGH, N. Y.—It is proposed to build an armory here for the Tenth Separate Company. The proposition to build has been passed by the State Armory Board. The plans provide for a modern building with a drill shed, 120 × 180 ft. It is probable that an appropriation of between $150,000 and $175,000 will be asked.

NEW YORK, N. Y.—Bids were received Feb. 4, by Robert W. Hebbard, Comr. Public Charities, for the completion of the abandoned contract of the Church Construction Co., dated Dec. 12, 1905, for the erection and entire completion of the new municipal lodging house in the Borough of Manhattan, situated approximately 400 ft. east of First Av., and on the southerly side of 25th St., the city of New York, together with the abandoned supplemental contract, dated June 7, 1907, for the completion of a boiler pit, caisson work, new foundation work, etc. Following are the bids submitted: Emanuel Rosenberger, $220,000; Luke A. Burke, Sons & Co., 25 West 42d St., $279,250; O'Connell & Hanna, 271 West 125th St., $283,000; Thomas Leahy Building Co., 5 East 42d St., $267,164; J. & L. Moreland Co., 1910 Park Ave, $284,734; P. J. Carlin Construction Co., 1 Madison Ave., $344,000; John Kennedy & Co., 1133 Broadway, $353,000; Isaac Hopper & Co.; 1170 Broadway, $389,900.

BUFFALO, N. Y.—Bids are asked by the Board of Public Works, until Feb. 13, for constructing a fire-truck house to be located at the corner of Fillmore Ave. and Lovejoy St., and for a shelter house at Washington Market.

BAYONNE, N. J.—Tuthill & Higgins, 359 Fulton St., Jamaica, N. Y., have completed plans and will receive bids about Feb. 15 for a 2-story office building, 72 × 224 ft., at Bayonne, N. J., for Babcock & Wilcox Co., Bayonne. Brick, stone, terra cotta blocks and reinforced concrete, architectural and structural iron will be used for construction. Cost, $75,000. The New York office of Babcock & Wilcox Co. is at 85 Liberty St.

TRENTON, N. J.—H. A. Hill, 40 East State St., Trenton, is preparing plans for a 2-story school building for the Board of Education. It will be built of brick, stone and steel, with open plumbing, plate glass, tile work, electric fixtures and steam heat and ventilating systems. Cost, $75,000.

HACKENSACK, N. J.—John F. Kelly & Co., Archs., P. O. Bldg., Passaic, N. J., have completed plans for a 2-story and basement school and lyceum building for the Holy Trinity Parish, Rev. J. J. Cunneely, Pastor, Hackensack. Estimated cost, $50,000.

PHILADELPHIA, PA.—John Loughran, 3855 North Broad St., is having plans prepared for 120 houses, at 13th and Lycoming Sts. The buildings will have two stories, and will be constructed of brick and stone. Bids will be received about May 1.

J. L. Windrim, Commonwealth Bldg., Arch., has plans for remodeling building at Broad and Race Sts., into a club-house for the Scottish Rite Consistory. Brick, stone and steel, fireproofing, will be used in construction. Cost, $200,000.

PHILADELPHIA, PA.—J. Edmund Emick has been granted permits by the Bureau of Building Inspection to build 20 3-story brick houses on the north side of Jefferson St., east of 63d St.. Each house will measure 16.4 × 54 ft., containing all modern improvements. The operations will cost $86,000.

The old Hollingsworth mansion, 1528 Chestnut St., is to be torn down and a building six stories in height is to be built on the site. The cost will be about $150,000. The first floor, covering 37 × 230 ft., will be used as a large store. The remaining floors of the building will be divided into offices. Plans for the new building have already been prepared. The improvements will be made by the owner, George B. Wilson, Pennsylvania Bldg.

HOMEWOOD, PA.—E. V. Kerner, Arch., Liberty National Bank Bldg., Pittsburg, will receive bids at once for the school building for the Board of Education, Homewood, to cost $100,000.

NORRISTOWN, PA.—Baker & Dallett, Archs., 1639 Chestnut St., Philadelphia, have plans for a 3-story nurses' home for the State Asylum for Insane, Norristown, Pa. It will be built of brick, stone and steel and will cost $50,000.

PITTSBURG, PA.—Regarding the proposed construction of the West Penn Hospital, Col. A. J. Logan, 29th St. and Liberty Ave., Pittsburg, writes us that, by direction of the Board, the Building Committee has selected several architects to submit competitive plans for the new hospital buildings. The names of the architects have not been made public as yet and may not be until after the plans have been submitted, some time in March next. It is estimated that the hospital buildings will cost $500,000.

PITTSBURG, PA.—The Bernard Gloekler Co., 1127 Penn Ave., has decided to erect a 10-story fireproof building on Penn Ave., near 16th St. No plans have been prepared, nor has type of building been decided upon. The building will cost about $100,000.

BALTIMORE, MD.—The James P. Shannon Hotel Co., E. P. Herbert, Mgr., will remodel Eutaw House, corner Eutaw and Baltimore Sts., at a cost of about $75,000. The improvements will consist of new interior construction, painting and decorating, installing electric elevators and telephone system.

WASHINGTON, D. C.—A new building for the Supreme Court of the United States, to cost $8,000,000, and to be situated on the corner opposite the Library of Congress, where the Congressional apartment house now stands, is provided for in a bill lately introduced in Congress. James Knox Taylor is Superv. Arch., Treasury Dept., Washington.

FORT MEYER, VA.—Bids are asked until 11 a. m., Feb. 24, by Capt. B. B. Hyer, Constr. Q. M., for construction of one set of field officers' quarters, three double sets lieutenants' quarters, one barrack, one stable, one gun shed and one stable guard and shop.

RICHMOND, VA.—Competitive plans for erection of combined market and armory building will be received at office of the City Engineer, until March 23. Architects submitting designs will be required to furnish plans, four elevations, longitudinal and cross-sections and other necessary detail drawings; also proposal from reliable company that building can be erected for $100,000.

ASHEVILLE, N. C.—David Gaetz & Sons, Knoxville, Tenn., were the lowest bidders, at $50,600, for extension and improvement to U. S. post-office and court-house at Asheville, for which an appropriation of $65,000 has been made. James Knox Taylor, is Superv. Archt., Treasury Dept., Washington, D. C.

GREENVILLE, S. C.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., until 3 p. m., March 10, for construction of an extension, remodeling, etc, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the U. S. post-office and court-house at Greenville.

SAVANNAH, GA.—A temple will be erected in this city by the Masonic Temple Association to cost about $150,000. A. B. Simpson is Pres.

JACKSON, MISS.—B. J. Smith, Mgr., Hotel Edwards, is having plans and specifications prepared for erection of two additional stories to cost about $75,000.

QUARANTINE, LA.—We are advised by Capt. R. H. von Ezdorf, Past Asst. Surgeon, that the following improvements, to be made at the New Orleans Quarantine Station, Quarantine, at some future time, are contemplated and will be recommended to the Department, viz.: One set living quarters, detention barracks, smallpox hospital, steam laundry, electric light plant, cement walks, installation of sanitary plumbing in all quarters, concrete retaining wall along river front, etc.

MEMPHIS, TENN.—The Y. M. C. A. has adopted plans by John Gaisford, Randolph Bldg., Memphis, for erection of building on a site, 90 × 150 ft. The building will have seven stories and basement, two stories in rear, 700,000 sq. ft. of floor space. The fourth, fifth and sixth floors are to be used as dormitories and contain 140 rooms, 3,000 lockers. Cost, about $162,000. It is expected that contract will be open for bids within one month. E. B. Lemaster is Chn. of Plans Com. John H. Pepper, H. M. Pilcher and others are Dirs.

NASHVILLE, TENN.—The Watuga Club has had plans prepared by Carpenter & Blair for erection of proposed club house. It is stated that structure will be either of reinforced concrete and steel or brick and stone, 8 stories high and will cost about $125,000.

CINCINNATI, OHIO.—Bids are asked until Feb. 17, by the Board of Education, William Grautman, Clk., City Hall, for constructing the 3-story Hughes High School building, 272 × 192 ft., on McMillan St., from plans by J. Walter Stevens, Arch., New York Life Bldg., St. Paul, Minn. Press brick, Bedford stone, terra cotta and reinforced concrete will be used in construction. Cost, $750,000. Edward Hannaford, Pickering Bldg., Cincinnati, is Heating and Ventilating Engr.

Des Jardins & Sheblessy, 18 East Fourth St., have been retained to prepare plans for a 2-story brick school building, 125 × 150 ft., on Queen City Ave., for St. Bonaventura congregation, on premises. Cost, $75,000.

Plans are being prepared by Harry Cordes, 910 Union Trust Bldg., who will receive bids in about 30 days for building a 3-story apartment building, 90 × 125 ft., at Ludlow and Brooklin Aves., for Albert W. Hayward, Union Trust Bldg. Press brick, composition roof, structural iron and steel will be used in construction. Cost, $75,000.

Press reports state that the Ohio Land & Improvement Co. will erect about 50 moderate priced houses in the spring, on property recently acquired in Springfield Township near College Hill. C. W. De Armond is Pres.

INDIANAPOLIS, IND.—The erection of a new school building in Cerealinetown was definitely decided on at a recent meeting of the city School Board. The building will be constructed at 21st St. and Sugar Grove Ave., at the corner of Germania Park, and will contain probably ten rooms. It will cost approximately $50,000, and is expected to be ready for occupancy by the beginning of school next fall. Blaine H. Miller is City Engr.

FLINT, MICH.—Bids are asked until Feb. 20 for erecting a city hall, exclusive of heating and lighting. Cost, between $65,000 and $75,000. Van Leyen & Schilling are Archs., Union Trust Bldg., Detroit.

LANSING, MICH.—Bids are asked by A. M. Brown, Secy. State Bd. of Agriculture, until 4 p. m., Feb. 11, for construction of an agricultural building at the Michigan Agricultural College. E. A. Bowd is Arch., 202 Washington Ave., North Lansing.

DETROIT, MICH.—The Detroit "News-Tribune" states that Stratton & Baldwin, Archs., Union Trust Bldg., Detroit, and W. Burrows, associate, have prepared the plans for the proposed Belle Isle bath house, which is to be erected between the Detroit Yacht Club and Detroit Boat Club houses. The structure will be set back 100 ft. from the beach and will have walls faced with pressed brick, trimmed with stone and furnished with a tile roof. The main building will be 66 × 772 ft. The building will contain toilet rooms, an infirmary and a laundry with electrical power. The building will be steam heated and two electric elevators will be installed. Inside the court will be two tiers of bath houses, containing 941 dressing rooms and lockers.

CHICAGO, ILL.—An apartment building to cost $400,000 is to be erected on Lake Shore Drive. Marshall & Fox, 164 Dearborn St., are Archs.

The stockholders in the Merchants' Building Co. have passed a resolution granting the officials authority to acquire a long-term lease of the corner for the purpose of erecting a building. The building is to be used for stores and offices and will also contain safety deposit vaults. The corner is 96.25 × 111.5 ft.

CHICAGO, ILL.—Plans are being prepared by Perley Hale, Arch., 132 South Clark St., for a 30-apartment building for Joseph C. Blaha, 2001 West Twelfth St. It will have three stories, 80 × 200 ft., press brick, with stone trimmings, gravel roof, structural iron, oak finish and maple floors, marble, mosaic and tile work, consoles, gas and electric fixtures, lavatories, water closets, bath tubs and steam heat. Cost, $80,000. Bids will be received by owner.

Preliminary estimates have been asked for by Holabird & Roche, Archs., Monadnock Bldg., on plans that have been drawn for the new Vendome Building which is to be built at the corner of Michigan Ave. and Van Buren St. It is said that it may be a year or more before all the necessary preliminaries are concluded. The building is to cost $1,000,000, and will be used for offices. It will have 17 stories and will be 101 × 171 ft. The work will be done under the direction of R. H. McCormick, Trustee, 145 LaSalle St.

MILWAUKEE, WIS.—Bids are asked until Feb. 27 for building a normal school. It will be a 3-story building, containing 45 rooms and a hall, with a seating capacity of 900. It will be built of press brick and stone trimmings. The State Board of Normal Regents estimate that the building can be erected for $220,000, including equipment. J. A. Peacock, Oconomowoc, Wis., is Pres. Bd. Van Ryn & De Gelleke, 211 Grand Ave., Milwaukee, are Archs.

DES MOINES, IOWA.—Bids are asked by J. C. Simpson, Secy. State Board of Agriculture, until noon, Feb. 18, for erection of an administration building on the State Fair Grounds. Smith, Wetherell & Gage, 300 Youngerman Bldg., are Archts.

The Still College of Osteopathy, M. Runnelle, Pres., contemplates the erection of a hospital building to cost $50,000.

DES MOINES, IOWA.—Bids are asked until Feb. 10 by Hallett & Rawson, Archs., 615 Walnut St., Des Moines, for erecting a Y. W. C. A. building at Ninth and High Sts., at a cost of about $95,000.

ST. PAUL, MINN.—Plans are being prepared by Buechner & Orth, Archs., Manhattan Bldg., St. Paul, for constructing a 4-story pressed brick and cut stone, reinforced concrete fireproof department store for the Hamm Brewing Co. It will be 144 × 300 ft., having steam heating, electric lighting and paving, two electric passenger elevators. Cost, $250,000.

WICHITA, KAN.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to FRANK H. LATIMER, Massachusetts Bldg., Kansas City, Mo., contract for the construction of the post-office at Wichita, Kan., at $44,362; time to complete, Feb. 28, 1909.

YORK, NEB.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to J. H. WIESE, South Omaha, Neb., contract for the construction of a post-office building at York, Neb., at $52,712; time to complete, May 1, 1909.

ST. LOUIS, MO.—We are officially informed that bids are being received for construction of bachelor apartments, which will be built, at a cost of $100,000, for the Bachelor Building Co., Lincoln Trust Bldg., St. Louis. The structure will have seven stories and will be 65 × 65 ft. and 76 ft. high. W. Rus Samuel Construction Co., Times Bldg., St. Louis, is Arch. and Builder.

NEVADA, MO.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has rejected all bids recently received for a post-office building at Nevada, Mo., and will readvertise for bids.

ST. LOUIS, MO.—Eames & Young, Archs., Chestnut and Seventh Sts., will soon start plans for a branch library building for the St. Louis Library Board. Cost, $80,000.

T. C. Link, Arch., 308 North Sixth St., has let contract to O'MEARA CONSTRUCTION CO., Syndicate Trust Bldg., for a 1-story club building, 100 × 100 ft., for Wednesday Club Building Co. to cost $50,000.

LITTLE ROCK, ARK.—It is reported that plans are being prepared for an addition to be built to Hotel Marion at an estimated cost of $125,000.

CONWAY, ARK.—The g[illegible] contract for constructing the State Nor[illegible] School building here has been let to [illegible]TER BROS., of this city, at $60,000. J. [illegible]yne is Pres. State Normal Board, Litt[illegible]ck; Charles L. Thompson is Arch., [illegible]nsas Bldg., Little Rock.

HOUSTON, TEX.—James [illegible]nox Taylor, Superv. Arch., Treasury D[illegible], Washington, D. C., has rejected all bids [illegible]tly received for the construction of an [illegible]nsion to the post-office at Houston, Te[illegible] vertise for bids on exte[illegible] will read-lowest bid was submitted [illegible] plans. The Gonigle, Leavenworth, K[illegible]mes A. McNoted fully on Jan. 23. [illegible] at $277,870.

SEATTLE, WASH.—The [illegible]ited Cities Trustee Co. will erect a br[illegible]ilding on its property at the corner of [illegible]on St. and Miner Ave. The building [illegible] occupy a space 120 ft. square and [illegible] contain 250 rooms. It will cost about $[illegible]0. William D. Van Siclen, New York [illegible]k is Arch. JOHN L. CANNON, Terry [illegible] Marion Sts., has contract.

Cutter & Malmgren will be [illegible]ady to take figures on the C. J. Smith [illegible]ding, to be built at 5th and Union St[illegible] at once. It will cost $110,000.

TACOMA, WASH.—It is r[illegible]ted that the National Realty Co. will ere[illegible] apartment house to cost about $125,00[illegible] It will be built at Tacoma Ave. and North Fourth St.

MARSHFIELD, ORE.—The [illegible]otel to be built at Marshfield, for which [illegible] F. Himebaugh, Arch., Portland, Ore., [illegible]pared plans, will be 100 × 200 ft. and [illegible]mprise five stories. It will be built of reinforced concrete. The TRUSSED CONCRETE & STEEL CO., A. J. Curry, Mgr., has the contract for the erection of the structure. It is reported that it will cost $200,000.

BERKELEY, CAL.—The [illegible] contract for building the town hall has been awarded by the Berkeley Board of Trustees. ROBERT GREIG secured the contract for the superstructure at $67,800, and the RICKON-EHRHART ENGINEERING & CONSTRUCTION CO., 1859 Geary St., San Francisco, is to do the excavating and concrete work for $42,370, making a total for the whole building including $2,400 for the tower, of $112,570, which does not include the architect's fees and some of the extras of the original plans.

OAKLAND, CAL.—We are officially advised that bids will be received in April for constructing a 7-story fireproof reinforced concrete Y. M. C. A. building, 84 × 160 ft., to cost $250,000. The equipment will cost $30,000. Howard & Galloway, 604 Mission St., San Francisco, Cal., are Archs. W. A. Horn is Gen. Secy., Y. M. C. A.

LOS ANGELES, CAL.—Alfred F. Rosenheim, H. W. Hellman Bldg., has prepared plans for the building to be erected at Seventh and Olive Sts. for the Los Angeles Athletic Club, at a cost of about $500,000.

SAN JOSE, CAL.—We are officially advised that on Jan. 27, ROBERT O. SUMMERS, 18 West First St., San Jose, secured contract for making repairs to the City Hall, at $35,00. William Binder, Auzerais Bldg., and T. Lenzen, 119 South Second St., are Archs., San Jose.

TORONTO, ONT.—The First Church of Christ has purchased a site upon which to erect a church to cost approximately $150,000. F. B. Robbins is interested.

TORONTO, ONT.—The contract for constructing a conservatory here has been let to BROWN & LOVE, 46 Price St., Toronto. Price, $90,000.

The James Morrison Brass Mfg. Co., 89 Adelaide St., West, is making arrangements for the erection of a fully modern steel warehouse and office building to cost approximately $80,000.

Plans are being prepared for the proposed school board offices and the York St. school. Cost, $110,000. R. T. Coady is Clerk.

VANCOUVER, B. C.—The Grand Trunk Pacific Ry. Co. is having plans prepared in Montreal for a hotel to be erected at Prince Rupert, at a cost of approximately $1,250,000. F. W. Morse is Gen. Mgr., Montreal, Que.

SASKATOON, SASK.—The Dominion Government has started excavating and will shortly call for tenders for the erection of a $100,000 post-office and customs-house here. Fred Gelinas is Secy. of the Dept. of Public Works, Ottawa, Ont.

The Sawyer & Massey Co., Hamilton, Ont., will erect an office and warehouse in Saskatoon, Sask., at a cost of about $130,000.

WINNIPEG, MAN.—H. C. Stone, Arch., Bank of Toronto Bldg., is preparing plans for a theater building to be erected here early in the spring for a local syndicate. Estimated cost, $100,000.

William Mackenzie, Pres. of the Canadian Northern Ry. Co., states that bids will be let before April 1 for erection of a union depot and hotel for the Canadian Northern and Grand Trunk Pacific railways. M. H. McLeod is Gen. Mgr., Winnipeg, Man.

EDMONTON, ALTA.—The Alberta Government intends carrying on extensive building operations this year. The list of public buildings include the court-houses in Edmonton and Wetaskiwin, the Land Titles Office in Calgary, the Normal School at Calgary, the jail or court-house at Lethbridge, and the asylum at Ponoka.

WATER SUPPLY—IRRIGATION.

FT. ETHAN ALLEN, VT.—The contract for piping wells for air shaft at Ft. Ethan Allen, Vt. has been awarded to ALFRED FORLT, Plattsburg, N. Y., at $4,371.

WORCESTER, MASS.—THE LYNCHBURG FOUNDRY CO. was awarded the contract, on Jan. 28, by George W. Batchelder, Water Comr., for furnishing the Water Department with pipe, at $34,000.

NEWBURYPORT, MASS.—The City Council on Jan. 24 authorized the expenditure of $75,000 for a new auxiliary water supply. Henry W. Little is City Clk.

PITTSFIELD, MASS.—The Berkshire Life Insurance Co. will rebuild the dam in this city across the easterly branch of the Housatonic River at the Van Sicklen property. The dam will be built filled, with a concrete facing two feet thick, 79 ft. long and with an extreme height of 18 ft. above foundation of 18 ft. The contract has been awarded to the F. T. LEY CONSTRUCTION CO., Springfield, Mass., and DANIEL J. WELSH, Pittsfield. Estimated cost, $7,500. Barnes & Spaulding, Pittsfield, are the Engrs.-in-Charge.

*MARION, MASS.—Bids are asked by the town until 8 p. m., Feb. 17, for furnishing and erecting pumping machinery for the water-works system. Louis E. Hawes, Marion, is Engr.

*BREWSTER, N. Y.—Bids are asked until 8 p. m., Feb. 7, by the village for furnishing cast-iron water pipe, hydrants, gates, gate-boxes, lead and gasket, and until 8 p. m., Feb. 21, for laying said pipe and fixtures, and for building a concrete reservoir. T. H. McKeever is Engr.

*ASBURY PARK, N. J.—Specifications are on file at the office of Engineering News, New York, for fire hydrants. Bids are asked until Feb. 15.

PHILADELPHIA, PA.—See under Manufacturing Plants.

ROME, GA.—The city has decided to expend $33,000 for the extension of water mains.

LANETT, ALA.—The Council has appointed a committee to ascertain the cost of installing a water system.

*FORT MORGAN, ALA.—Bids are asked until 2 p. m., Feb. 27, by Capt. L. F. Garrard, Jr., for furnishing and installing two 50-HP. horizontal, tubular boilers, two compound duplex pumps, one 150-HP. feed-water heater and purification system, feed pump and inspirator.

CINCINNATI, OHIO.—An ordinance has passed the Council for the appropriation of $250,000 for constructing, improving and extending the water-works system.

CLEVELAND, OHIO.—The expenditure of $175,000 is authorized in water-works ordinances recently introduced.

GENEVA, OHIO.—The Council is contemplating having a new dam constructed. Estimated cost, $10,500. J. H. Copp is Town Atty.

SOUTH BEND, IND.—Bids are asked by the Board of Public Works until Feb. 12, for furnishing 750 tons of water pipe for the water-works system.

BENTON HARBOR, MICH.—Bids are asked until Feb. 10 by the Council for the construction of the water-works plant.

BERRIEN SPRINGS, MICH.—Bids are asked by Loren B. Marquissee, Village Clk., until 7.30 p. m., Feb. 10, for constructing a system of water-works.

QUINCY, ILL.—The directors of the Citizens' Water-Works Co. are preparing to expend $7,000 in extending water mains. T. B. Pape is Dir.

WAUKESHA, WIS.—W. G. Kirchoffer, Consulting Engr., Madison, Wis., has made a report for an additional water supply. He recommends the drilling of a number of shallow wells and the installation of a high-lift motor-driven turbine pump.

RICHLAND CENTER, WIS.—The Common Council is considering the advisability of drilling a new 12-in. well, 700 ft. deep, at the site of the electric light plant and move the water-works to that location. W. G. Kirchoffer, Madison, Wis., is the Engr.-in-Charge.

COUNCIL BLUFFS, IOWA.—The plans and specifications for a municipal water-works plant, prepared by S. L. Etnyre, City Engr., have been submitted to the Council. The estimates are as follows: Pumping station, $111,500; settling basins, $89,750; distribution basins, $331,757; high pressure reservoir, $24,130; relaying pavement, $21,765; real estate, $8,000; financing, $30,000; total, $616,902.

MINNEAPOLIS, MINN.—We are officially advised that the following bids were received on Jan. 31 by the City Council for cast-iron water pipe: (a) 1,000 tons 6-in., (b) 212 tons 8-in., (c) 717 tons 12-in., (d), 1,102 tons 16-in., (e) 70 tons 24-in.: Lynchburg Foundry Co., Lynchburg, Va., (a) $26.70, (b) $26.70, (c) $26.45, (d) $26.45, (e) $26.45. U. S. Cast-Iron Pipe & Foundry Co., (a) $25.20, (b) $25.20, (c) $25.20, (d) $25.20, (e) $25.25. American Cast-Iron Pipe Co., (a) $26.70, (b) $25.20, (c) $25.20, (d) $25.75, (e) $25.20. Dimmick Pipe Co., (a) $25.65, (b) $25.65, (c) $25.65, (d) $25.65, (e) $25.65. Massillon Pipe Co., (a) $28.70, (b) $28.70, (c) $27.70, (d) $27.70, (e) $26.70. Camden Iron Works (a) $32.10, (b) $32.10, (c) $31.80, (d) $31.80, (e) $31.80.

Bids as follows were received on Jan. 31 by the City Council for (a) 145 6-in., (b) 10 8-in., (c) 12 10-in., (d) 24 12-in., (e) 2 24-in. valves, (f) 140 D. S. hydrants, (g) 125 tons special castings: South Park Foundry & Machine Co., St. Paul, Minn., (a) 13.50, (b) $19, (c) $37.50, (d) $75, (e) $210, (f) $45 each; Camden Iron Works, Philadelphia, Pa., (f) $41.75 each. J. B. Clow & Sons, Chicago, Ill., (a) $13.80, (b) $21, (c) $39.25, (d) $87.60, (e) $263, (g) $52.50 per ton. Chapman Valve Mfg. Co., Indian Orchard, Mass., (a) $18.50, (b) $23.70, (c) $60.50, (d) $113, (e) $276.50. Kennedy Valve Mfg. Co., New York, (a) $11, (b) $17, (c) $32.50, (d) $80, (e) $250. Lynchburg Foundry Co., Lynchburg, Va., (g) $52.70 per ton. Massillon I. & S. Co., Chicago, Ill., (g) $55; Crown Iron Works, Minneapolis, (g) $53. N. W. Foundry Co., Minneapolis, (g) $54. Dimmick Pipe Co., Birmingham, Ala., (g) $55. U. S. Cast Iron Pipe & Foundry Co., Chicago, (g) $52.50. Andrew Rinker is City Engr.

DEERFIELD, KAN.—We are officially advised that the contract for electrically driven pumps in connection with the irrigating work, known as the Garden City project, at Deerfield, has been awarded by the U. S. Reclamation Service, Chicago, Ill., to the BUFFALO FORGE CO., Buffalo, N. Y.

WINTHROP, WASH.—The Methow Trading Co., Twisp, Wash., has petitioned the County Commissioners for a franchise for water-works here.

SPOKANE, WASH.—The City Council contemplates having a standpipe installed at 29th Ave. and Grand St. following an application by the Park Commission for additional water supply in Manito Park. Estimated cost, between $8,000 and $10,000.

*KLAMATH FALLS, ORE.—Bids are asked until 2 p. m., April 1, by the U. S. Reclamation Service, Portland, Ore., for the construction of the South branch canal, located about ten miles southeast of Klamath Falls, Ore., Klamath project, Oregon-California. James Rudolph Garfield is Secy.

ORLAND, CAL.—Plans and specifications for the Government irrigation project here are nearing completion. The plans provide for a reservoir, and a diversion dam at the Miller Buttes. If the Chief Engineer of the Reclamation Service, Washington, D. C., approves, bids will soon be asked.

*OAKLAND, CAL.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of a salt water pumping plant for the city. Bids are asked until March 18. F. C. Turner is City Engr.

SAN BERNARDINO, CAL.—Bids are asked until 5 p. m., Feb. 10, by the Board Water Commissioners for furnishing and delivering 1,300 ft. of 6-in. and 2,700 ft. of 4-in. standard cast-iron pipe. Harry Allison is Secy. Bd.

HAMILTON, ONT.—The following bids have been received by P. W. SOUTHMAN, Engr., Hydro-Electric Power Commission, for electric pumps and motors, 25-cycle: The Swedish General Electric Co., $12,800; Buffalo Steam Pump Co., 490 Broadway, Buffalo, N. Y., $7,600; Canadian Westinghouse Co., $15,945; 66-cycle for induction motors: Swedish General Electric Co., $9,800; Buffalo Steam Pump Co., $8,500; General Electric Co., $8,800. The bids are being considered by the Fire and Water Commission. Bids for the pump will be readvertised.

PALMERSTON, ONT.—The town contemplates expending $35,000 for water-works extension during 1908. Galt & Smith are Engrs.-in-charge.

VANCOUVER, B. C.—The contract for the construction of the wood stave pipe on the Seymour Creek system has been awarded to the CANADIAN PIPE CO. W. A. Clement is City Engr.

FORT WILLIAM H. SEWARD (Haines post-office), ALASKA.—Contract for construction of the water supply system at this post has been awarded to McINNIS & HARRINGTON, at $69,518.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Feb. 19, by Bird S. Coler, Boro. Pres., for furnishing and delivering 2,000 lin. ft. of vitrified sewer pipe.

ROCHESTER, N. Y.—The following bids have been received by the Board of Contract and Supply for the construction of the Mount Hope sewer system: Hagaman, Miller & Hagaman, $24,657; Whitmore, Rauber & Vicinus, $29,571; F. V. Brotsch Co., $34,405; F. A. Brotsch & Son, $36,395; F. C. Lauer & Sons Co., $36,522; Thomas Holahan, $33,853; William Fuller, $37,422; H. B. Hooker & Son, $37,811; Brayer & Albaugh, $33,959.

GREENVILLE, PA.—A sewage disposal plant to cost $40,000 may be built here.

FT. DU PONT (Delaware City post-office), DEL.—JOSEPH ANDERSON, Ft. Du Pont, has been awarded the contract for remodeling the sewer system at Ft. Du Pont, at $4,924.

The contract for the installation of sewerage injector and construction of injector chamber has been awarded to H. A. MILLER, Wilmington, Del., at $7,195.

BALTIMORE, MD.—Bids are asked until 11 a. m., Feb. 19, by the Sewerage Commission for constructing west low level interceptor Sec. 3, the work including 1,867 lin. ft. 66-in., 355 lin. ft. 60-in., 80 lin. ft. 30-in. diameter sewer, and two bellmoutha. Harry W. Rodgers is Secy.

McMECHEN, W. VA.—We are officially advised that ROSIER & MALONEY, Bellaire, Ohio, have been awarded the contract by the city for the construction of about four miles of pipe sewers. H. M. McElroy is City Clk. C. C. Smith, Wheeling, Va., is Design. Engr.

ATLANTA, GA.—See under Streets and Roads.

CLEVELAND, OHIO.—Bids are asked until noon, Feb. 13, by the Board of Public Works for the construction of sewers in various streets, avenues, courts and roads. A. R. Callow is Secy. Bd.

YOUNGSTOWN, OHIO.—Bids are asked until noon, Feb. 17, by the Board of Public Service for the construction of a sewer in Shehy St., from Truesdale Ave. to Jackson St. W. H. McMillin is Clk. Bd.

MINGO JUNCTION, OHIO.—Bids will probably be asked about Mar. 1 for concrete or brick sewers. Estimated cost, about $25,000. S. E. Floyd, Wintersville, Ohio, is Engr.

JACKSON, OHIO.—Bids are asked until March 25 by the village for the construction of about 1½ miles of sanitary sewers. Estimated cost, $15,000. D. L. Lewis is Village Clk.; J. W. Turner is Engr.

SPRINGFIELD, OHIO.—The Council passed an ordinance on Jan. 28 providing for the construction of the Indian Run sewer. W. H. Sieverling is City Engr.

*SPRINGFIELD, OHIO.—The following bids were received on Jan. 24 by the Board Public Service for the construction of the high level intercepting sewer:

Plain concrete—Gould & Wright, $40,861; Mitchell Bros., $44,355; Huonker & Williams, 141 South Limestone St., Springfield, $45,081; Bowman Bros. Co., $46,675; Thomas P. Strack, $45,977; John H. McHugh, $46,385; Paul & Kershner, $48,377; Daniel Doyle, $49,241; C. I. McCracken Co., Columbus, Ohio, $50,285; Philip Hipskind & Sons, $51,225.

Reinforced concrete—Gould & Wright, $42,615; Mitchell Bros., $46,286; Huonker & Williams, $46,940; John H. McHugh, $47,366; Thomas P. Strack, $47,512; Daniel Doyle, $51,041; Paul & Kershner, $51,589; Philip Hipskind & Sons, $52,489; Bowman Bros. Co., $52,526.

Vitrified pipe—Gould & Wright, $45,723; Thomas P. Strack, $51,199; Huonker & Williams, $51,997; Mitchell Bros., $52,494; John H. McHugh, $52,845; C. I. McCracken Co., $53,568; Bowman Bros. Co., $54,741; Philip Hipskind & Sons, $56,562; Daniel Doyle, $61,002; Paul & Kershner, $62,897.

Jackson reinforced concrete—Gould & Wright, $40,861; Thomas P. Strack, $46,923; John H. McHugh, $48,013; C. I. McCracken Co., $50,285; Philip Hipskind & Sons, $52,922.

Ohio reinforced concrete—Thomas P. Strack, $46,432; John H. McHugh, $47,031; Huonker & Williams, $49,699; Philip Hipskind & Sons, $50,735.

Sheets' patent reinforced concrete—Thomas P. Strack, $46,923; John H. McHugh, $48,013; Philip Hipskind & Sons, $51,500. W. H. Sieverling is City Engr.

BEREA, OHIO.—We are officially advised that BALDWIN BROS. & GRAHAM were the only bidders on Jan. 27 for the construction of a storm sewer at $5,008. O. R. Stone is Village Clk.

RICHMOND, IND.—HIPSKIND & SON, Wabash, Ind., were awarded the contract on Jan. 26 by the Board of Public Works for the construction of the South West Second St. sewer system and disposal plant at $54,038. Fred A. Charles is City Engr.

CAIRO, ILL.—Bids are asked until 10 a. m., Feb. 12, by the Board of Local Improvements for the construction of vitrified tile pipe sewers, house connections, etc., in various streets. Ernest Nordman is Secy. Bd.

DOWNER'S GROVE, ILL.—We are officially advised that the contract for the construction of storm sewers was awarded on Jan. 24 by the Board of Local Improvements to H. C. SCHREETER & CO., Manitowac, Wis., at $7,994. J. S. Lozier, Downer's Grove, Ill., is Engr.

*WILMETTE, ILL.—We are officially advised that all bids received on Jan. 24 by the Board of Local Improvements for the construction of a relief sewer system were rejected. The bidders were: M. H. McGovern, Commerce Bldg., Chicago, Ill., $149,284; F. G. Mortimer, Glencoe, Ill. $136,049; Green & Sons Co., Appleton, Wis., $148,589; James Healey & Son, Chicago, Ill., $146,251. New bids are asked until 8 p. m. Feb. 13. Charles N. Roberts, 700 Reaper Block, Chicago, Ill., is Engr. E. P. Dunshee is Asst. Secy. Bd.

NORTH MILWAUKEE, WIS.—Bids are asked by Emil Klamp, Village Clk., until Feb. 17, for a sewage pump plant and six filter beds. W. G. Kirchoffer is Consult. Engr., Madison, Wis.

MENOMINEE FALLS, WIS.—Plans and specifications for a sewerage system will be prepared by W. G. Kirchoffer, Consult. Engr., Madison, Wis.

MILWAUKEE, WIS.—The Board of Public Works awarded the contract on Jan. 21 to HERMAN HOKENSEE for the construction of 2,575 ft. of sewer in Pabst and Lisbon Aves., at $5.37 per ft. Charles G. Poetsch is City Engr.

MARINETTE, WIS.—L. B. Hillis, City Engr., is preparing plans for the construction of a sewer on Sherman Ave., from Minneapolis to Schields Sts., and on Josephine St., from Lewis St. to Sherman Ave.

OTTUMWA, IOWA.—The city has awarded the contract to J. W. SCOTT, Ottumwa, for laying about 6,200 lin. ft. of pipe sewers 10 to 20 ins. in diameter. J. T. Brady is City Engr.

AUSTIN, MINN.—Bids are asked until Feb. 7 by the Common Council for furnishing and delivering to this city by June 1, 1908, 3,600 ft. 24-in. sewer pipe. T. M. Foster is City Recdr.

ST. PAUL, MINN.—The Board of Public Works has awarded to the GENERAL CONTRACTING CO., 430 Temple Court, Minneapolis, Minn., the contract for constructing the St. Anthony Park sewer system at $317,000. The bids for this work were opened on Nov. 18, and the work comprises 54,717 lin. ft. vitr. pipe sewers, 8,341 lin. ft. concrete sewer, 4 ft. 3 in. to 7 ft. 3 in. diam., 21 connections, 267 manholes and 270 catch basins.

Bids are asked by the city until Feb. 14, for the following material for the construction of sewers for 1908: Vitrified clay pipe, special castings, sewer brick, natural cement, Portland cement. Andrew Rinker is City Engr.

EMPORIA, KAN.—Bids are asked by G. O. Mathewson, City Clk., until Feb. 17, for constructing an extension to storm water sewer on Neosho St.

*BARTLESVILLE, OKLA.—We are officially advised that the time for receiving bids for furnishing all material and constructing complete about 25,000 ft. of 8-in., 6,000 ft. of 10-in. 3,500 ft. of 12-in. tile sewer, 750 Y branches, 2,600 cu. yds. rock excavation, 35,000 ft. of trench from 4 to 16 ft. deep, 85 manholes, 100 cu. yds. concrete masonry, has been extended until Feb. 10. E. C. D'Yarmett is City Engr.

BELLINGHAM, WASH.—The City Council has instructed the City Engineer to prepare plans for rebuilding the sewer outlet on the tideflats below West Holly St. and extending into the waterway. The plans will probably call for a 4½ or 5-ft. brick or concrete sewer.

TACOMA, WASH.—STOLL & SWEENEY have secured the contract for constructing sewers in the north end, at $31,318. Frank L. Davis is City Engr.

SPOKANE, WASH.—G. BURGIE has secured the contract for constructing sewers on Ninth and Tenth Aves. at $10,310. Charles McIntyre is City Engr.

SEATTLE, WASH.—We are officially advised that the Council has passed ordinances ordering the following street improvements: Atlantic St., and other streets, sewers. Estimated cost, $69,000; Thorndyke Ave., and other streets, sewers. Estimated cost, $154,000. R. H. Thomson is City Engr.

SEATTLE, WASH.—The following ordinances have been passed, ordering street improvements. Atlantic St., and other streets, sewers, $69,000; Thorndyke Ave. and other streets, sewers, $154,000. R. H. Thomson is City Engr.

ELMHURST, CAL.—The citizens voted on Jan. 18 in favor of the construction of a sanitary sewer district. Estimated cost, about $75,000.

SAN JOSE, CAL.—CHARLES WEBER, Spencer St. and Brown Ave., San Jose, has secured the contract for constructing 9,932 lin. ft. 33-in. reinforced concrete pipe sewer at $42,400. Charles H. Pieper is City Engr.

SAN DIEGO, CAL.—The Board of Public Works on Jan. 20 instructed the City Engineer to submit estimates on the cost of installing an 18-in. sewer pipe on C St. from Fourth to Artic Sts.

GARBAGE DISPOSAL.

(denotes that this work is advertised in Engineering News.)*

HARTFORD, CONN.—Bids are asked until 11 a. m., Feb. 10, by the Board of Contract and Supply for furnishing a new set of wheels for a No. 3 Harrisburg steam road roller and for re-tubing the boiler of a No. 2 Harrisburg steam road roller.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. of the Bronx, until 11 a. m., Feb. 13, for unloading and delivering ashes furnished by the Department of Street Cleaning.

FORT HANCOCK (Sandy Hook post-office), N. J.—LEWIS & KITCHEN have been awarded the contract for the construction of a garbage crematory here, at $4,480. Capt. N. N. Falls is Q. M., U. S. A.

WASHINGTON, D. C.—The lowest bid received for the collection of ashes from private residences was that of the Pollock Draying Co., at $69,544. The other bidders were: James W. Bean, $71,284; George W. Kalian, $74,500; George Hyman, $71,075; Stutler & Ready, $72,000; R. V. Rusk, $77,000; Fred L. Smith, $72,700.

MINNEAPOLIS, MINN.—We are officially advised that the following bids were opened on Jan. 31 by the City Council for one electric crane for the garbage disposal plant: Pawling & Harnischfeger, Milwaukee, Wis., $2,485; Cleveland Crane & Car Co., Wickliffe, Ohio, $2,460; Brown Hoisting Machinery Co., Cleveland, Ohio, $3,850; Case Mfg. Co., Columbus, Ohio, $2,500; General Pneumatic Tool Co., Montour Falls, N. Y., $1,835. Andrew Rinker is City Engr.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

BROOKFIELD, CONN.—James H. MacDonald, State Highway Comr., has let the contract for the construction of 7,150 ft. of gravel road on the Danbury-New Milford turnpike in this town to the BENNETT N. BEARD CO., Shelton, Conn., at 75 cts. per lin. ft. Other bidders were: The T. H. Gill Co., Boston, Mass., 84 cts.; B. D. Pierce, Jr., Co., Bridgeport, Conn., $1.37; Donahoe Bros., $1.17.

WILLINGTON (West Willington post-office), CONN.—Bids are asked until 3 p. m., Feb. 7, by the Selectmen for grading several sections of road, aggregating 26,000 ft.

BUFFALO, N. Y.—Bids are asked until Feb. 14 by the Board of Public Works for paving, repaving and macadamizing parts of the following streets: Kenmore Ave., Villa Ave. and Scott St.

WATERTOWN, N. Y.—The City Engineer has been directed by the Board of Public Works to prepare plans for paving a section of Main and Leroy Sts., leading from the Court St. bridge to the freight yards.

BUFFALO, N. Y.—The City Council has ordered that the following streets be repaved: Exchange St., 42 ft. wide, with dressed block Medina sandstone on concrete base, from the west curb line of Hamburg St. to the Indian Reservation line, except the crossing of Larkin St; estimated cost, $37,348; Hamburg Turnpike St., 42 ft. wide, with dressed block Medina sandstone on concrete base, from the south approach to the bridge over Buffalo River, to the north ramp of proposed viaduct over Buffalo Creek R. R. tracks and Ship Canal; estimated cost, $32,014; Louisiana St., 42 ft. wide, with dressed block Medina sandstone on concrete base, from the north curb line of Perry St. to a point about 42 ft. north of Miami St., except the space occupied by the street railroad tracks and the proposed tracks and two feet outside the same, and the crossing of Elk St.; estimated cost, $7,941; Glenwood Ave., 28 ft. wide, from the east curb line of Masten St. to the west curb line of Purdy St.

SCHENECTADY, N. Y.—The Public Service Commission, Albany, N. Y., has approved work in connection with the elimination of twenty or more grade crossings in Schenectady at a cost of $1,000,000.

*CORNING, N. Y.—Bids are asked until noon, March 5, by J. T. Hall, Clk. Bd. Pub. Wks. for constructing about 16,250 sq. yds. of brick pavement with cement curbs and gutters, and also for 4,500 sq. yds. macadam pavement with cement curbs and gutters.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Feb. 17, by John F. Ahearn, Boro. Pres., for furnishing and delivering 1,200 cu. yds. washed gravel, 6,000 cu. yds. of sand, 60,000 gallons of No. 6 paving cement.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Feb. 19, by Bird S. Coler, Boro. Pres., for furnishing and delivering 30,000 paving brick 19,000 paving blocks, broken trap rock, and trap rock screenings.

*FORT WOOD (New York post-office), N. Y.—Bids are asked in triplicate until 11.30 a. m., April 1, by G. C. Burnell, Constructing Q. M., U. S. A., for the construction of roads and walks at Fort Wood.

*ATLANTIC CITY, N. J.—The contract for paving Pacific Ave. and constructing drainage conduits was awarded on Jan. 27 by the City Council to WARREN, QUINLAN & CO., 42 Broadway, New York, at $58,873. Other bidders were: Barber Asphalt Paving Co., 114 Liberty St., New York, $59,550; Standard Bitulithic Co., 253 Broadway, New York, $64,153. J. W. Hackney is City Engr.

JERSEY CITY, N. J.—The Street and water Board has awarded the contract for asphalting Kearney Ave. to the UVALDE ASPHALT CO. Charles Van Keuren is Ch. Engr. Bd.

HARRISBURG, PA.—The State Highway Department has awarded contracts as follows for constructing State roads: Appollo Borough road, RHINEHART BROS., East Liverpool, Ohio; Benninger Township, the MARYLAND CO., Philadelphia, Pa.; Cresson Borough, the MARYLAND CO.; Cresson Township, J. L. ELDER, Ebensburg, Pa.; Dunbar Township, PATRICK RIDGE, Pittsburg, Pa.; East Lampeter Township, W. McCLELLAN, Strafford, Pa.; Logan Township, VIPOND CONTRACTING CO., Altoona, Pa.; Londonderry Township, UNITED ICE & COAL CO., Harrisburg, Pa.; North Bellevernon Borough, THOMAS SWEENEY CO., Pittsburg, Pa.; Rostraver Township, E. M. LOVE, Corry, Pa.; Sugar Creek Township, J. L. HANNA, JR., Franklin, Pa.; Swatara Township, the MARYLAND CO., Philadelphia, Pa.; Wyalusing Township, E. WHALEN, Towanda, Pa.

*FREEPORT, PA.—Bids are asked until 7.30 p. m., Feb. 20, by H. L. Kiskaddin, Borough Clerk, Freeport Borough, Freeport, for grading, curbing, paving and sewering of part of Second St., and grading, curbing and paving part of Fifth St., Borough of Freeport. The approximate amount of the various kinds of work is as follows: 4,000 lin. ft. curbing; 6,600 sq. yds. brick paving; 900 ft. 15-in. sewer with catch basins and manholes; 600 cu. yds. excavation; 7,500 cu. yds. filling. The Borough will purchase the paving brick, block to be used in this work and will receive separate bids for the same.

PHILADELPHIA, PA.—JAMES P. McNICHOL & BRO., Betz Bldg., Philadelphia, was awarded the contract on Jan. 29 by the Assistant Director of Public Works for repairing granite pavement on sand or gravel foundation on all traction streets at 29 cts. per sq. yd.

*FORT DUPONT (Delaware City post-office), DEL.—Bids are asked by Capt. J. L. Knowlton, Constructing Q. M., U. S. A., until 11 a. m., March 2, for constructing macadam roads, granolithic sidewalks, concrete curb and gutter, and wooden bridge.

BALTIMORE, MD.—PATRICK F. REDDINGTON was awarded the contract on Jan. 22 by the Board of Awards for paving Franklin St. between Eutaw St. and Pennsylvania Ave. with granite block, at $3.87 per sq. yd. B. T. Fendall is City Engr.

MORGANTOWN, W. VA.—We are officially advised that the contract for street paving and constructing sewers has been awarded by the City Council to the THONEY PIETRO CO., Main St. and Bumbo Lane, Morgantown, at $85,000.

CHARLOTTE, N. C.—Bids are asked by J. B. Spence, Custodian U. S. post-office and court-house, until 4 p. m., Feb. 11, for paving driveways.

ATLANTA, GA.—Bids will be received until Feb. 17 by the General Council, for furnishing and laying brick, tile and sheet cement sidewalks, setting granite and concrete curb, furnishing vitrified pipe, cement for sewer work, manhole and catch-basin covers for sewers, and constructing such sewers as may be required during the year 1908. R. M. Clayton is City Engr.

JACKSONVILLE, FLA.—The Duval County Commissioners have awarded the contract to A. L. HENDERSON for clearing and grading the proposed road from Jacksonville to the sea at $40 for hammock and bay land, $36.50 for pine land and $25 per acre for scrub oak land. The road to be cleared and graded is about 7½ miles long, and area to be cleared is 40 ft. wide, and contains about 30 acres. W. W. Cummer, C. E. Garner and R. B. Archibald are the members of the Special Road Committee.

MONTGOMERY, ALA.—The MEMPHIS ASPHALT & PAVING CO., Memphis, Tenn., has been awarded the contract for paving Hull St. with sheet asphalt, 45,000 sq. yds., at $2.28 per yd.

MONTGOMERY, ALA.—The SOUTHERN BITULITHIC CO., First National Bank Bldg., Nashville, Tenn., has secured the contract for constructing hexagon block sidewalks, granite curbing, and storm sewers, at $12,898.

CAMBRIDGE, OHIO.—Bids are asked until Feb. 20 by the Board Public Service, for grading, drainage, curbing and paving on North Eighth St., Long St. and Madison Ave., approximately 4,976 cu. yds. excavation; 13,245 sq. yds. brick paving, 8,044 lin. ft. straight curbing, 384 lin. ft. 10 ft. radius and 240 lin. ft. 5-ft. radius curbing, 500 ft. 15-in. and 170 lin. ft. 12-in. sewer pipe, etc. A. J. Hall is Pres. Bd.

SIDNEY, OHIO.—J. M. & A. G. MYERS, Dayton, Ohio., have been awarded the contract for constructing the Brandewe pike, 223,216 ft., at $11,888. Charles Counts is County Surv.

YOUNGSTOWN, OHIO.—Bids are asked by the Board Public Service until noon, Feb. 17, for grading and paving various streets, and furnishing 50 tons of asphalt.

EVANSVILLE, IND.—The Board of Public Works has ordered plans and specifications for the improvement of 14 streets. Bids will be asked as soon as plans are completed.

INDIANAPOLIS, IND.—Bids are asked by the Board of Public Works until Feb. 12, for the construction and equipment of an asphalt plant capable of producing material for laying at least 1,000 sq. yds. of finished asphalt topping a day of ten hours. Blaine H. Miller is City Engr.

JEFFERSONVILLE, IND.—Bids will soon be asked by the Commissioners of Clark County for the construction of 30 miles of gravel roads in Charlestown Township.

GRAND RAPIDS, MICH.—The Board of Public Works awarded the contract on Jan. 3, for paving East Bridge St., from North Ottawa to Barclay Sts., to KLOOT & VANDER VEEN at $36,380. Samuel A. Freshney is Gen. Mgr. Bd.

CADILLAC, MICH.—Bids are asked until Feb. 11, by Board Public Works, for paving a number of streets.

PEORIA, ILL.—The contract for paving Water St. from Main St., south to Chestnut St., was awarded on Jan. 27 by the Board of Local Improvements to JOHN McALLISTER, at $9,612.

CAIRO, ILL.—Bids are asked until Feb. 12 by the Board of Local Improvements for paving Washington Ave., with brick, from Second to 35th Sts., 51,646 sq. yds. Estimated cost, $129,650. W. B. Thistlewood is City Engr.

DOWNER'S GROVE, ILL.—We are officially advised that H. C. SCHREETER & CO., Manitowac, Wis., was awarded the contract on Jan. 24, for grading and macadamizing Lincott Ave., and East Parkway, at about $4,550.

EAST ST. LOUIS, ILL.—We are officially advised that the GEISEL CONSTRUCTION CO., St. Louis, Mo., was awarded the contract on Feb. 1 by the Board of Local Improvements for paving Third St., from Missouri Ave. to Broadway, at $5,327. Engineer's estimate, $5,426.

MINNEAPOLIS, MINN.—Bids are asked until Feb. 14 by the city for Portland cement for paving, and curb and gutter for 1908. Andrew Rinker is City Engr.

*FORT MEADE, S. DAK.—Bids are asked in triplicate until 10 a. m., March 2, by Capt. L. C. Scherer, Constructing Q. M., U. S. A., for the construction of roads, sidewalks, gutters and drains.

BEAUMONT, TEX.—The contract for 140,000 cu. yds. of clam shell to be used in the construction of 100 miles of shell road in Jefferson County, has been awarded by the County Commissioners to MYRICK BROS. CONSTRUCTION CO., Beaumont, and the FRANK T. IRELAND CO., at $1 per cu. yd.

DALLAS, TEX.—The GENERAL SUPPLY & CONSTRUCTION CO. has been awarded the contract for repaving 23,600 sq. yds. on Akard St. with Thurber brick on a concrete base of gravel mixture five inches thick, with 2-in. cushion of clean sand, at $2.06 per sq. yd., without maintenance stipulation.

HOUSTON, TEX.—Bids are asked until noon, Feb. 12, by John B. Ashe, County Audr., for grading 2¼ miles of roadway on the Dairy and Yates Gin County road.

IDAHO SPRINGS, COLO.—GEORGE S. WILKIE has been awarded the contract for constructing two miles of road.

SEATTLE, WASH.—We are officially advised that R. H. Thomson, City Engr., has reported the estimated cost of proposed street improvements as follows: North and West 70th St. and other streets, grading, $19,900; Holgate St., grading and filling, $47,000; Fourth Ave. South, grading, etc., $68,000; 14th Ave. and other streets, grading, etc., $15,000.

The Council has passed an ordinance providing for the improvement of 24th Ave., by constructing concrete sidewalks. Estimated cost, $10,000.

SEATTLE, WASH.—We are officially advised that HOLT & JEFFERY, 310 Hinckley Block, Seattle, have been awarded the contract by the Board of Public Works for grading Aurora and other streets, at $57,623. R. H. Thomson is City Engr.

SEATTLE, WASH.—R. H. Thomson, City Engr., has reported the estimated cost of grading 15th Ave., N. E., and other streets at $18,900, and Fourth Ave., South, at $62,000.

SEATTLE, WASH.—The Board of Public Works has awarded the contract for paving Ballard Ave., between Third and Market Sts. to the SPARGER CONCRETE CO., Seattle, at $8,936. R. H. Thomson is City Engr.

GOLD BEACH, ORE.—F. J. Hofsess submitted the only bid for the construction of the Denmark-Sixexs Road, at $4,449.

SACRAMENTO, CAL.—JAMES McGILLIVRAY and E. O. BURGE have been awarded the contract for the improvement of T St. from Front St. to 28th St.; E. TWADDLE the contract for the improvement of the alleys, S and T, 17th to 19th Sts., and the CLARK & HENERY CONSTRUCTION CO. for the improvement of Sixth St. from L to R Sts.

OAKLAND, CAL.—The City Council has passed a resolution ordering the improvement of 47th St. from Grove to West Sts.; of Hudson St. from Claremont to College Sts., and of East 15th St. from 14th to 15th Aves.

SAN DIEGO, CAL.—The contract for grading Washington St., from Second to Hawk Sts., was awarded on Jan. 20 by the City Council to H. G. FENTON, at $8,872. J. T. Butler is City Clk.

SAN JOSE, CAL.—All bids for resurfacing San Fernando St., were rejected on Jan. 20 by the Common Council. Charles H. Pieper is City Engr.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

PITTSFIELD, VT.—William D. Thompson, Burnside Bldg., Worcester, Mass., is drawing plans for a factory to be erected at Pittsford, for the Sweat-Comins Co. The building will be steel and concrete, four stories, 146 × 72 ft., and will have a tar and gravel roof. Work will be done by the day.

GREENFIELD, MASS.—The Conant & Donelson Co., tap and die manufacturers, Greenfield, Mass., are contemplating the erection of a factory at Greenfield. Plans probably will be drawn by H. R. Drew, Pond Block, Greenfield, Mass.

WORCESTER, MASS.—It is probable that the Wire Goods Co., 28 Union St., Worcester, will erect an addition to its plant. A. W. Parmlee is Pres.; Reginald Washburn is Treas.

CAMBRIDGE, MASS.—It is reported that William H. Wood, of William H. Wood & Co., Cambridgeport, Mass., contemplates the erection of a garage and light manufacturing building on Third St., Cambridge. No engineer has been selected.

SPRINGFIELD, MASS.—The Cresco Corset Co., of which Harry A. Wright, Springfield, Mass., is Pres., and which is being organized at a capitalization of $100,000, has secured an option on a site for a building at Springfield. No engineer has been selected nor details decided.

LAWRENCE, MASS.—The Boston & Maine R. R. Co. contemplates razing the present car shops here and building in their stead a freight and roundhouse to accommodate 50 locomotives. Lucius Tuttle, Boston, is Pres.; H. Bissell is Ch. Engr.

CLINTON, MASS.—Press reports state that the Bigelow Carpet Co. will erect an addition to its weaving mill, which will extend from School to Main Sts. A power, light and heating plant will be erected in the spring on Union St. A branch line of the Boston & Maine R. R. is to be run under Main and School Sts., to reach a terminus in the yard of the old weaving mill. C. F. Fairbanks, Sears Bldg., Boston, Mass., is Treas.

BOSTON, MASS.—George H. Stoddard, 133 Commercial St., Boston, writes us that the Quincy Market Cold Storage & Warehouse Co. is to build a 10-story fireproof warehouse about 160 × 88 ft., covering 14,080 sq. ft. of land, to be used for freezing and storing of butter. This building will be erected at the corner of Commercial St. and Eastern Ave., Boston, next to one of its present fireproof warehouses.

BRIDGEPORT, CONN.—Plans are being prepared for a brick and steel beef house, to be erected on Water St. for Schwarzchild & Sulzberger Co., 802 Water St., at an estimated cost of $75,000.

BUFFALO, N. Y.—The Buffalo Machine Mfg. Co. will build a 3-story brick factory at West and Forest Aves. at a cost of $16,000. C. A. Svenssen, 221 Franklin St., will have the contracts.

*OSSINING, N. Y.—See under Buildings.

MALDEN, N. Y.—We are advised that the Lengsholz & Diedling Tile Co., of Malden, N. Y., is about to enlarge its plant. It will expend about $150,000 in new equipment.

FLUSHING, L. I., N. Y.—William H. Birkmire, Arch., 396 Broadway, New York, advises us that he is preparing plans for a 5-story brick coffee-essence factory to be built on Lawrence St., Flushing, for Heinrich Franck, Söhne & Co. The plans will be ready for estimates in about ten days.

NEW YORK, N. Y.—We are officially advised that contracts will be let in about ten days for alterations and extension to 4-story factory building for the Rahtjens American Composition Co., 69 Van Dyke St., Brooklyn. Cost, $15,000. A. S. Hedman, 367 Fulton St., Brooklyn, is Arch.

PATERSON, N. J.—A silk mill will be erected in this city on a plot located at the corner of Franklin St. and Graham Ave. The mill, when completed, will be occupied by the United Ribbon Co., 187 Ellison St., Paterson. The structure will be three stories in height, 54 ft. in width and 180 ft. long. There will be a separate building for the engine and boiler rooms. The P. S. VAN KIRK BUILDING & CONSTRUCTION CO., Fulton St., Paterson, has been awarded the contract. The building will cost about $30,000. It is expected that it will be completed and ready for occupancy by July 1.

IRVINGTON, (Newark post-office), N. J.—We are officially informed that the AMERICAN CONCRETE-STEEL CO., Union Bldg., has been awarded the contract for the erection of the proposed factory building for the J. T. Castles Ice Cream Co., Irvington, the main building to be 44 × 100 ft., three stories and basement, with 1-story boiler and engine room, 44 × 60 ft. The contract includes all the work, complete, with the exception of machinery, price for which will be $30,000. Joseph B. Allen, 45 Elmwood Ave., Irvington, is Arch.

PHILADELPHIA, PA.—Sauer & Hahn, Archs., 1112 Chestnut St., have invited estimates on plans for manufacturing buildings to be contemplated in this city. The buildings will be erected at 1310 to 1326 North Lawrence St. for the Standard Hosiery Co., and will be a completely equipped plant, costing about $150,000. The plant will consist of a main spinning mill, measuring 147 × 38 ft.; a picker house, 37 × 40 ft.; a boiler house, 53 × 40 ft.; an engine room, 40 × 46 ft.; an office building, 30 × 38 ft., and a concrete reservoir with a capacity of 75,000 gallons. With the exception of the boiler and engine houses, all the buildings will be four stories high and will be of fireproof construction.

Ballinger & Perrot, Archs., 1200 Chestnut St., have let contract to the PHILIP HAIBACH CONTRACTING CO., 26th and Thompson Sts., for constructing a 5-story addition to factory building for A. Schoenhut Co., 2215 Adams St. Cost, $75,000.

SCOTTDALE, PA.—J. S[illegible] more, Pa., is looking fo[illegible] vicinity of Scottdale, wh[illegible] erection of a plant for [illegible] coal mine cars and gener[illegible] A number of Pittsburg a[illegible] ties are interested in [illegible] pany, and when a site [illegible] costing about $100,000 wi[illegible] will include equipment f[illegible] house, forge shop, pressi[illegible]

ROANOKE, VA.—A com[illegible] ganized with a capital s[illegible] erect a paint factory; pa[illegible] tured from mineral pai[illegible] property of T. W. Stiglem[illegible]

WAYNESBORO, VA.—T[illegible] centrator Co., Joplin, Mo. [illegible] mining machinery, will [illegible] plant in Waynesboro, it [illegible]

NEWBURN, N. C.—Th[illegible] Lumber Co. will erect a p[illegible] 44 ft. It will cost about [illegible] machinery. It will have a [illegible] 000 ft.

WELDON, N. C.—The ma[illegible] Shaw Cotton Mills, Weldon, [illegible] contract for construction of [illegible] L. DRISCOLL, of Roanoke [illegible] at $23,700. The main buildi[illegible] two stories high, 50 × 150 ft. [illegible] ment of textile machinery will [illegible] frame spindles, together with [illegible] accompaniment, for manufa[illegible] yarns, Nos. 24 to 36, two ply. [illegible] the textile machinery, and for [illegible] ing work was awarded some [illegible] the MASON MACHINE WORKS, Oak St., Taunton, Mass. Power for driving the spindles, etc., will be furnished by a gas engine and gas producer equipment. The company has a capital stock of $100,000 and the following officers: W. T. Shaw, Pres. and Gen. Mgr.; W. A. Pierce, Treas., and R. S. Travis, Secy.

SPARTANBURG, S. C.—Press reports state that the Crescent Mfg. Co., of Spartanburg, will install yarn-spinning equipment. It has awarded contracts for the machinery, the awards going to the SACO & PETTEE MACHINE WORKS, 78 Chauncy St., Newton Upper Falls, Mass.; for the cards, drawing, speeders, slubbers and spinning; to the KITSON MACHINE CO., 401 Dutton St., Lowell, Mass., for the opening machinery and cone winders; and to the WESTINGHOUSE ELECTRIC & MFG. CO., of Pittsburg, Pa., for the electric machinery. Electricity will be used for driving both the spindles and knitters. Current will be purchased from a local power company.

ATLANTA, GA.—Bids are asked until 10 a. m., Feb. 28, by R. V. La Dow, Supt. of Prisons and Prisoners, Dept. of Justice, Washington, D. C., for installing an ice-making or refrigerating machine with ammonia condenser, and other work, at the U. S. Penitentiary, Atlanta.

MOBILE, ALA.—The CREAMERY PACKAGE CO., 184 East Kinzie St., Chicago, Ill., has contract to erect a $100,000 ice plant for the Mobile Brewery Co.

MONTEVALLO, ALA.—Bids are asked by W. E. Spink, Arch., Title Guarantee Bldg., until Feb. 15, for erecting a laundry and power house for the Alabama Girls' Industrial School at Montevallo.

LAUREL, MISS.—The Wausau Southern Lumber Co., Wausau, Wis., is proceeding with plans for establishment of saw and planing mill at Laurel, to have a total output of 250,000 ft. of lumber daily. The company owns about 90,000 acres of pine timber lands southeast of Laurel, extending into Wayne and Leake Counties. A branch railroad will be built from Laurel to the further edge of this property, connecting with Alabama & Mississippi R. R. About 80 acres will be required as site for mills, tenant houses, officials' residences and other buildings. J. M. T. Hamilton, Meridian, Miss., is in charge of laying out the townsite. It is estimated that improvements contemplated will cost about $2,500,000.

GREENEVILLE, TENN.—The Greeneville Ice & Refrigerator Co. will erect an iron-clad building, 30 × 100 ft., in which to install 10-ton ice plant, costing $10,000. H. Reaves, F. A. Vance and G. W. Dougherty are interested.

LOUISVILLE, KY.—Gray & Haws, Archs., have prepared plans for a piano manufacturing plant, to be built at Brook and Lee Sts. It is to have two stories. There will be an office building, 200 × 400 ft. Complete equipments for the reduction of the raw wood and metal to the finished product and a power plant will be installed. Cost, $800,000.

CINCINNATI, OHIO.—We are officially advised that the ALLING CONSTRUCTION CO., 72 Madison St., Chicago, Ill., has been awarded the contract for the reinforced concrete building for the Merchants Ice & Cold Storage Co., in Cincinnati. This work is to be Turner Mushroom system. The building will have eight floors and columns are 18 ft. on centers. The live load is 300 lbs. a sq. ft. with test requirements of 900 lbs. a sq. ft. The building will be 165 × 210 ft.

ELKHART, IND.—A. H. Ellwood & Sons, Archs., Fort Wayne, Ind., have submitted a drawing of the proposed whip factory for the Sterling, Hudson & Jones Whip Co., and have been instructed to complete the plant as soon as possible. It is proposed to begin building the factory as early in the spring as possible. The size is to be 117 × 365 ft., two stories and a basement, with towers which will be four stories high.

ELKHART, IND.—It is stated that fire destroyed a storehouse and small machine shop of the Lake Shore & Michigan Southern Ry. Co., located between the passenger and freight engine-houses. The loss probably will be about $80,000. The engine-houses will be restored to former condition. All work will be done with its own forces. Samuel Rockwell, of Cleveland, Ohio, is Ch. Engr.

MANISTIQUE, MICH.—Press reports state that the Weston Mfg. Co. will erect a planing mill here. As far as is practicable, concrete will be used in its construction. The plant will be operated by electricity, each machine being equipped with a separate motor. A kiln-house, 52 × 160 ft., has recently been completed for the company.

CHICAGO, ILL.—Fritz Folz, Arch., 140 Dearborn St., Chicago, has prepared plans for an addition to the factory of Burley & Tyrrell, manufacturers of china and glassware, 878 South Halsted St.

ROCK ISLAND, ILL.—Whitsitt & Drury, Archs., Moline, Ill., are preparing plans for a 1-story factory building, 100 × 300 ft., for the National Neck Yoke Co., Rock Island. Brick, with composition roof, metal skylight, electric fixtures, lavatories and water closets will be used. Cost, $25,000.

WAUSAU, WIS.—It is stated that the plant of the Wausau Brick & Tile Co., lately damaged by fire at a loss of $14,000, will be rebuilt.

SUPERIOR, WIS.—The Webster Mfg. Co. has let contract to J. W. HILLIARD, Winthrop Bldg., Duluth, Minn., for building a finishing shop. It will be three stories high, 81 × 225 ft., built of brick and stone. It will be erected under the superintendence of J. O. Bach, Superior, who prepared the plans.

OSCALOOSA, IOWA.—V. R. Van Nostrand, Albia, Iowa, is preparing plans for a 2-story factory for A. W. Van Nostrand, Oscaloosa.

FORT DODGE, IOWA.—Fred Larrabee and associates contemplate erecting a packing plant here, to cost $1,000,000. No architect has been selected.

IOLA, KAN.—Victor Beutner, Engr., Westinghouse Bldg., Pittsburg, Pa., has plans ready for figures for a cement plant, at Iola, for the Lumberman's Portland Cement Co., J. E. Waddell, Treas. and Mgr., Kansas City. Estimated cost, $700,000.

ST. LOUIS, MO.—O. J. Boehmer, Arch., 211 North Seventh St., has let general contract to B. WUSSALER, for constructing a 2-story factory for H. W. Ruhs. Cost, $10,000.

KANSAS CITY, MO.—The Waggoner-Gates Milling Co. will erect an elevator with storage capacity of 200,000 bushels costing about $25,000.

The Crushed Stone & Filler Co., C. M. Lyons, Pres., contemplates the erection of a quarry and crusher plant to cost $75,000.

HOUSTON, TEX.—It is stated that Edward Kennedy, of Houston, and Frank Kaucher, of Minneapolis, Minn., are interested in a proposition to erect a 1,000,000-bushel grain elevator, to cost $500,000.

NEWPORT, WASH.—The McLaughlin Lumber Co. will begin at once the erection of a sawmill between Newport and Tweedie, Wash., on the Idaho & Washington Northern R. R. The mill will have a capacity of 30,000 ft. a day. E. J. McLaughlin is Pres.

OREGON CITY, ORE.—A pulp and paper mill is to be erected here, it is reported, by the Hawley Pulp & Paper Co. Those interested are W. P. Hawley, T. J. Seufert, R. E. Bryan and J. M. Healy.

SPIRIT LAKE, IDAHO.—Machine shops, which will cost $100,000, will be built by the Idaho & Washington Northern R. R. Co. here. Work on the construction of the shops will be begun early in the spring and they will be completed next summer. The shop buildings will be of brick and will include a 6-stall roundhouse, according to the Pacific Building and Engineering Record. The machinery will be driven by electricity, separate motors to be provided for each machine. The electricity will be generated in the company's plant, which will be erected primarily for the purpose of supplying power to operate the planing mill of the Panhandle saw mill, now in course of completion. The electric plant will furnish light for the mill and for the town of Spirit Lake also. The Idaho & Washington Northern has prepared plans for building a gravity coal wharf and bunker for coaling its engines. This facility for the operation of the railroad will be built in the yards at Spirit Lake, which are now being graded and will cost about $9,000. R. F. Blackwell, Coeur D'Alene, Idaho, is Gen. Mgr.; L. F. McCoy is Ch. Engr. See under Railways.

TORONTO, ONT.—The Frank H. Fleer Co., 40 Lombard St., Toronto, intend erecting two reinforced concrete factories in this city, for the manufacture of gum. A site has been secured on Sterling Road, and about $65,000 will be spent on the new buildings.

WELLAND, ONT.—The Page-Hersey Iron Tube & Pipe Co. has decided to enlarge its plant. The furnace building will be 200 ft. long with wings 380 ft. long.

KENORA, ONT.—It is reported that the management of the Maple Leaf Flour Mills, Kenora, will rebuild its plant, destroyed by fire in January at a loss of about $300,000.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Railways.

TOWNSITE.—Laurel, Miss.—See Manufacturing Plants.

WHARF.—Spirit Lake, Idaho.—See under Manufacturing Plants.

DITCH.—Parkland, Ill.—Contract for ditch in the Parkland District has been awarded to R. H. McWILLIAMS, of Mattoon, Ill., at about $15,000.

LAUNCH.—San Francisco, Cal.—The Board of Supervisors has awarded contract for constructing a police patrol launch to WILLIAM CRYDER, at $11,890.

*WIDENING CANAL.—Detroit, Mich.—Bids are asked until 3 p. m., March 5, by Col. E. L. B. Davis, Corps Engrs., U. S. A., for widening St. Marys Falls Canal.

STONE.—Seattle, Wash.—Bids are asked until noon, Feb. 20 by Maj. H. M. Chittenden, Corps Engrs., U. S. A., for furnishing stone for Grays Harbor, Wash.

CONDUITS.—Chicago, Ill.—The CLAY PRODUCTS CO., of Brazil, Ind., has secured a contract to make 300 miles of conduits to be used by the Chicago City Railway Co.

DREDGING.—Port Arthur, Tex.—Bids are asked by Maj. J. F. McIndoe, Corps Engrs., U. S. A., New Orleans, La., until Feb. 21, for dredging about 250,000 cu. yds. at Port Arthur.

*REPAIRING PIER.—Grand Rapids, Mich.—Bids are asked until 3 p. m., March 5, by Col. A. B. Adams, Corps Engrs., U. S. A., for repair of South Pier at Charlevoix Harbor, Mich.

POLICE ALARM SYSTEM.—Fort Wayne, Ind.—Bids are asked by the Board of Public Safety until 8 p. m., Feb. 18, for installation of police alarm system. D. C. McCarthy, Clk Bd.

*DREDGING.—Baltimore, Md.—The Harbor Board of Baltimore announces that specifications for dredging about 590,000 cu. yds. will be sent to applicants. Bids are asked until Feb. 12.

DITCH.—Redwood Falls, Minn.—Bids are asked by L. P. Larson, Audr., Redwood County, until 2 p. m., Feb. 18, for digging and constructing tile and open ditch No. 7. Total estimated cost, $19,400.

DITCH.—Yankton, S. Dak.—Bids are asked until 2 p. m., Feb. 17, by David M. Finhegan, County Audr., for excavation and construction Clay Creek Ditch. Bond for $20,000 required of successful bidder.

OIL-PIPE LINE.—Beaumont, Tex.—The Texas Co. has awarded contract to L. R. DAVIS, Houston, Tex., for construction of 6-in. oil-pipe line from Sour Lake to Garrison Switch, a distance of 22 miles.

WHARF.—San Francisco, Cal.—The Board of Harbor Commissioners has rejected all bids for a large lumber wharf in Central Basin. Construction has been abandoned. W. B. Thorpe, Secy. Noted on Jan. 2.

TIMBER.—Pittsburg, Pa.—Bids are asked until noon, Feb. 13, for furnishing 275 M. B. M. white oak plank and timber at various points along the Butler plank road. Geo. T. Barnsley, Ch. Road Engr., 26 Court-House.

DITCH.—Estherville, Iowa.—Bids are asked by Roy J. Ridley, Audr., Emmet County, until 9 a. m., Feb. 27, for constructing ditch No. 26. There will be 44,000 yds. open ditch and balance tile. Estimated cost, $21,000.

DITCH.—Hamilton, Ohio.—Bids are asked by the Board of Commissioners of Butler County until 10 a. m., Feb. 18, for ditch improvement No. 11 in the City of Hamilton and Fairfield Twp. J. E. Brate, County Audr.

*DREDGING.—Norfolk, Va.—Bids were received on Jan. 29 by Maj. Joseph E. Kuhn, Corps Engrs., U. S. A., for dredging harbor at Cape Charles City, Va. L. M. Lewis, Norfolk, Va., was lowest bidder at 21½ cts. a cu. yd.; total cost, $29,025.

CEMENT.—Atlanta, Ga.—Bids are asked by R. V. La Dow, Supt. Prisons, Dept. Justice, Washington, D. C., until 10 a. m., Feb. 28, for furnishing and delivering at the United States Penitentiary, Atlanta, Ga., 10,000 barrels of American Portland cement.

DREDGE REPAIRS.—Cincinnati, Ohio.—One bid was received Jan. 21 by Lieut.-Col. William T. Rossell, Corps Engrs., U. S. A., for building cabin and upper works on steel dredge. It was submitted by the Howard Ship Yards Co., Jeffersonville, Ind., at $7,859.

*CANAL.—Albany, N. Y.—One bid was received on Jan. 31 by F. C. Stevens, Supt. Public Works, for improving the Erie Canal, Section 10, from .164 miles east of Eagle Harbor bridge to .09 miles west of Beal's bridge. Length of contract, 5.682 miles. For details, see under Contract Prices.

WALL, FENCE, ETC.—Greenville, Tenn.—The War Department has awarded contract to ALGERNON BLAIR, Montgomery, Ala., for construction of concrete inclosing wall, ornamental iron gates, wire fence and water supply at National Cemetery, at $13,060. Major M. Gray Zalinski, Q. M., U. S. A., in charge.

SALE OF QUARRY.—Ellicott City, Md.—A receiver's sale of quarry land, stone crushing, stone cutting and quarrying plant, known as Patapco quarries, and situated near Ellicott City, will be held on Feb. 10. For further information apply to Maloy & Brady, Solicitors, 1037-39 Calvert Bldg., Baltimore.

SAND, PITCH, CEMENT, ETC.—Brooklyn, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro Brooklyn, until 11 a. m., Feb. 13, for furnishing and delivering 8,500 cu. yds. of sand; 600,000 lbs. of paving pitch; 1,200 cu. yds. paving gravel; 7,500 bbls. Portland cement; 60,000 sq. ft. bluestone flagstone; 2,500 cu. yds. sand.

*DREDGING.—New York, N. Y.—Bids were received as follows on Feb. 1 by Col. John G. Knight, Corps Engrs., U. S. A., for dredging in mouth of Schodack Creek, Hudson River, N. Y.: Estimated quantity, 25,000 cu. yds. Hawley Miller, Albany, N. Y., 18 cts. a cu. yd., scow measurement; John & Joseph McSpirit, 118 Wayne St., Jersey City, N. J., 28 cts.

*DRAINAGE TUNNEL.—Colorado Springs, Colo.—Bids were received on Jan. 15 by E. D. Marr, Secy., for driving about 14,000 ft. of deep drainage tunnel, to be 7 × 10 ft., also for sinking about 600 ft. of shaft to be 5 × 10 ft. in the clear, in the Cripple Creek Mining District. Contract was awarded to A. E. CARLTON, of Cripple Creek, at $28 per lin. ft. W. W. ROGERS, of Denver, was awarded contract for sinking shaft, at $29.50 per lin. ft.

DRAINAGE.—Batchelor, La.—Bids are asked by the Board of Commissioners, Second Drainage District of Pointe Coupee Parish, Batchelor, until Feb. 20 for improving drainage and for clearing or removing obstructions to drainage in certain bayous in Pointe Coupee Parish, in accordance with plans and specifications by Board of State Engineers. N. P. Phillips, Pres.

DREDGING.—Brooklyn, N. Y.—Bids were received on Jan. 29 by Bird S. Coler, Boro. Pres., for furnishing all the labor and material required for dredging at and in the vaious basins of Gowanus Canal, namely: First St., Fifth St., Sixth St., Seventh St., and Eleventh St. basins. Estimated quantity, 33,600 cu. yds., scow measurement. Bids have been rejected. Estimated cost, $46,200.

ELECTRIC ELEVATORS, ETC.—New York, N. Y.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Feb. 29, for one alternating current electric elevator complete; two alternating current electric elevator machines, and three alternating current belted motors for the navy yard, New York. Specifications can be seen at the office of Engineering News, New York. R. C. Holliday, Chief.

BOAT WAGONS.—New York, N. Y.—Bids are asked by S. I. Kimball, Gen. Supt. U. S. Life-Saving Service, Washington, D. C., until 2 p. m., Feb. 13, for the construction of 20 McLellan boat wagons, ten with runners and ten without runners, to be delivered at the storehouse of this service, 379 Washington St., New York. Plans and specifications, forms of proposals, etc., can be obtained upon application to Capt. C. H. McLellan, U. S. R. C. S. (retired), superintending construction of lifeboats, apparatus, etc., life-saving service, Room 725-A, Custom-House, New York.

U. S. POSSESSIONS AND CUBA.

CEMENT.—Panama.—The Isthmian Canal Commission, Washington, D. C., has awarded to the ALPHA PORTLAND CEMENT CO., Easton, Pa., contract for furnishing 30,000 bbls. of Portland cement, at $54,600.

ENGINEERING SUPPLIES.—Panama.—Bids are asked until 10:30 a. m., Feb. 20, at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for the following engineering supplies for the Isthmus: 3,000 ft. plow-steel wire cable; 16,700 ft. extra quality flexible steel-armored air hose, various sizes, with couplings and spuds; 7,000 ft. rubber steam hose, wire-bound, 4-ply; 4,000 ft. rubber-lined cotton hose; 250 ft. suction hose; four sections steel suction pipe.

PIPE.—Panama.—Bids were received as follows Jan. 30 at the office of the Isthmian Canal Comn., Washington, D. C., for furnishing 4,050 ft. of galvanized wrought-iron pipe and fittings of various sizes: Cornell & Underhill, 47 Beach St., New York, $11,225; Cuyler & Mohler, 64 William St., Baltimore, $10,951; E. F. Keating Co., New York, $8,000; Bridgman Bros. Co., 1442 Washington Ave., Philadelphia, $10,391; Youngstown Sheet & Tube Co., Youngstown, Ohio, $9,680; $9,700.

ENGINEERING SUPPLIES.—Panama.—Bids are asked until 10:30 a. m., Feb. 24, at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing various engineering supplies as follows: One locomotive coaling engine, 15-ton capacity, maximum radius, 30 ft.; minimum radius, 12 ft.; track-gage, 5 ft. Six hoisting chains, 1-in.; 100,000 lbs. track bolts; 300,000 lbs. track spikes; steel shafting, locomotive headlights, belt lacing, electrical materials, iron conduits, wire, etc.

CEMENT.—Panama.—Bids are asked until 10:30 a. m., March 12, under Circular No. 420, at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for 4,500,000 bbls. of Portland cement, more or less, to be used for the construction of the canal locks at the rate of about 4,500 bbls. per day. Delivery is to commence Dec. 1, 1908, and to continue at the rate above specified. Propositions will be received on one or more of the following bases: (A) Furnishing the entire supply at the proposed rate of delivery; (1) on docks within reach of ship's tackle at U. S. seaports named by the bidder; (2) on docks, La Boca or Colon; (1a) in steamships of American register; (2a) of foreign register. (B) Furnishing any portion of the entire supply to be named by bidder, deliveries at a uniform rate to extend over a period of three years; same subdivisions, 1 and 2. (C) Furnishing one-third of the total amount or a less portion to be named by bidder, deliveries to be completed in one year at a uniform rate, subject to increase or decrease; same subdivisions. (D) Furnishing the entire amount, at the required rate; the contractor to ship the cement to a point on the Isthmus and there grind it in a mill to be erected, operated and maintained by him. Site to be furnished by the Commission on condition that it be removed within three months after completion of contract unless purchased by the Commission or leased by it. Specifications are on file at the office of Engineering News, New York.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*GUIDE WALLS, PAVING, ETC.—Wheeling, W. Va.—Bids were received on Jan. 25 by Capt. F. C. Boggs, Corps Engrs., U. S. A., for constructing guide walls, grading, paving, etc., at Dam No. 13, Ohio River. (Noted last week). Bids in detail were as follows: (A) James Skene & Sons, St. Louis, Mo.; (B) The Hollerbach & May Contract Co., Evansville, Ind.; (C) Fisher, Riley & Carozza, Baltimore, Md.

	(A)	(B)	(C)
42,400 cu. yds. Excavation	$1.00	$0.40	$0.75
6,400 cu. yds. Fill	.50	.75	.60
2,900 cu. yds. Base for paving	2.00	3.00	1.70
4,000 cu. yds. Riprap	5.50	3.25	3.75
16,900 lin. ft. Round Piles	.50	.50	.55
220,000 ft. B. M. Sheet Piles	65.00	60.00	80.00
4,650 ft. B. M. Lumber	45.00	60.00	60.00
6,650 cu. yds. Concrete, Class A	10.00	7.00	8.15
3,200 cu. yds. Concrete, Class B	7.50	7.50	8.00
175 cu. yds. Stone Masonry	8.00	10.00	12.00
210 sq. yds. Pointing Stone	.50	2.00	2.00
550 lin. ft. Sewer	.50	.75	.60
655 lin. ft. Drain	.25	.50	.40
2 Manholes, complete	100.00	100.00	100.00
370 lin. ft. Pipe, 4-inch	1.15	1.25	2.48
2,050 lin. ft. Pipe, 3-inch	.95	1.00	1.16
2,700 lin. ft. Pipe, 1½-inch	.50	.75	.72
5,850 lbs. Steel	.07	.08	.05
8,700 Forgings, Bolts, etc	.07	.08	.08
Total	$198,144	$147,350	$175,082

*CANAL.—Albany, N. Y.—One bid only was received on Jan. 31 by F. C. Stevens, Supt. Public Works, for improving the Erie Canal, Section 10, from .164 mile east of Eagle Harbor bridge to .09 mile west of Beal's bridge. Length of contract, 5.682 miles. It was submitted by the Lake Erie Dredging Co., of Buffalo, N. Y., at $796,269. The engineer's estimate was $725,214. The itemized prices were as follows—(A) engineer's estimate; (B) bid of Lake Erie Dredging Co.:

	(A)	(B)
Clearing, lump sum	$1,800.00	$1,800.00
40,000 cu. yds. grubbing	.30	.20
751,000 cu. yds. excavation	.45	.50
50 M. B. M. sheeting and bracing	50.00	50.00
446,000 cu. yds. forming embankment	.15	.18
16,000 cu. yds. lining	1.50	1.50
4,000 cu. yds. puddle	2.00	2.00
70 M. B. M. sawed lumber (yellow pine or Douglas fir)	55.00	55.00
30,400 lin. ft. foundation piles	.30	.35
3,500 cu. yds. second-class concrete	7.50	7.75
4,520 cu. yds. third-class concrete	6.50	6.75
470 cu. yds. reinforced concrete	10.00	10.00
190 cu. yds. first-class masonry	20.00	20.00
110 cu. yds. first-class masonry backing	8.00	8.00
30 cu. yds. first-class masonry coping	30.00	30.00
8 cu. yds. first-class masonry ring stone	35.00	35.00
70 cu. yds. first-class masonry sheeting	30.00	30.00
17 cu. yds. brick masonry	15.00	15.00
41,000 cu. yds. wash wall	2.50	2.85
300 sq. yds. second-class stone paving	1.50	1.50
1,400 sq. yds. third-class stone paving	1.25	1.25
310 cu. yds. third-class riprap	2.50	2.50
927,000 lbs. cast-iron culvert pipe and specials	.03½	.03½
60 lin. ft. 8" vitrified pipe laid	.50	.50
60 lin. ft. 15" vitrified pipe laid	1.25	1.25
60 lin. ft. trenching and backfilling for 8" pipe	.15	.15
60 lin. ft. trenching and backfilling for 15" pipe	.25	.25
690,000 lbs. structural steel	.05	.05½
110,000 lbs. metal reinforcement	.04	.04
20 sq. yds. flagstone walks	1.50	1.50
8,700 lin. ft. wooden fence	.20	.20
30 lin. ft. wrought-iron pipe railing	1.50	1.50
850 lin. ft. lattice railing	1.50	1.50
Taking up and resetting two catch basin covers, each	5.00	5.00
For maintaining navigation, lump sum	8,000.00	8,000.00
For maintaining highway traffic, lump sum	2,500.00	2,500.00
Deduct price to be paid to the State of New York for buildings in place, which are to be removed without expense to the State, lump sum	1,000.00	1,000.00
Deduct price to be paid to the State of New York for bridge superstructures which are to be removed without expense to the State, lump sum	200.00	200.00
Total	$725,214	$796,269

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—
Pittsburg, f. o. b. cars—Angles bars, 1.65 to 1.75 cts.; spikes, 2.25 to 2.45 cts.; bolts, square nuts, 2.65 to 2.75 cts.; bolts, hexagonal nuts, 2.80 to 2.90 cts.

RAILS, STEEL—
New York—at mill—New standard sections, $28; standard, second quality, $27 to $28; light sections, 12 to 14 lbs., $34 to $36; old iron rails, f. o. b. New York, $20 to $21; old steel rails, short lengths, $14 to $14.50; old steel rails, re-rolling lengths, $13.50 to $14.
Pittsburg—Standard sections, at mill, $28; standard, second quality, $27.50 to $28; light rails, 25 to 45-lb., $30; 20-lb., $31; 16-lb., $32; 12-lb., $34; 10-lb., $36, and 8-lb., $40.

STRUCTURAL MATERIALS—
New York—at tidewater—Beams and channels, up to 15-in., 1.86 cts.; over 15-in., 1.86 cts.; angles 3 × 2 and up to 6 × 6, 1.86 cts.; zees, 3-in. and larger, 1.90 cts.; tees, 3-in. and larger, 1.91 cts.; steel bars, half extras, 1.76 cts.
Pittsburg—Beams and channels, up to 15-in., 1.70 cts.; over 15-in., 1.80 cts.; angles, 3 × 2 × ¼-in. thick, up to 6 × 6-in., 1.70 cts.; 8 × 8 and 7 × 3½-in., 1.80 cts.; zees, 3-in. and larger, 1.70 cts.; tees, 3-in and larger, 1.75 cts.; bulb angles and deck beams, 2 cts. Under the steel bar card, angles, channels and tees under 3-in. are 1.70 cts., base, for Bessemer and open hearth, subject to half extras on the standard steel bar card.

PLATES AND SHEETS—
New York—at tidewater—The following prices are based on carload lots, with 5 cts. extra for less than carload lots. Terms, net cash in 30 days:

Tank plates, 6¼ to 14 ins. wide	$1.86 to $1.96
14½ to 100 ins. wide	1.96 to 2.00
Flange and boiler test	1.96 to 2.06
Marine	2.26 to 2.36
Locomotive, fire-box	2.75 to 3.50
Still bottoms	2.14 to 2.29½

Note—Plates more than 100 ins. in width, 5 cts. extra per 100 lbs.; plates 3-16-in. in thickness, $2 extra; Nos. 7 and 8 gage, $3 extra; No. 9, $5 extra.
Pittsburg—Tank, ¼-in. thick and heavier, 1.70 to 1.80 cts.; black sheets, 27-gage, 2.50 to 2.55 cts.; black sheets, 28-gage, 2.60 to 2.65 cts.

IRON—
Pig Iron:
At New York—tidewater—

Northern—	
No. 1 X foundry	$18.75 to $19.75
No. 2 X Foundry	18.25 to 19.25
No. 2 plain	17.75 to 18.75
Gray Forge	17.25 to 18.25
Basic	18.00 to 19.00
Virginia—	
No. 1 foundry	19.50 to 20.00
No. 2 foundry	19.00 to 20.00
Basic	19.00 to 20.00
Southern—	
No. 1 foundry	18.00 to 18.75
No. 2 foundry	17.75 to 18.25
No. 3 foundry	17.25 to 17.75
No. 4 foundry	16.75 to 17.25
No 1 soft	18.25 to 18.75
No. 2 soft	17.75 to 18.25
Gray forge	17.75 to 17.85
Mottled	16.75 to 17.25
At Pittsburg, f. o. b. cars—	
No. 2 foundry	17.00 to 19.00
Gray Forge	16.00 to 16.50
Bessemer iron	18.00 to 19.00
Ferromanganese	51.50 to $52.50
At Chicago—	
Lake Superior Charcoal	$22.00 to $22.50
Northern—	
Coke Foundry, No. 1	18.50 to 19.00
Coke Foundry, No. 2	18.00 to 18.50
Coke Foundry, No. 3	17.50 to 18.00
Scotch No. 1	19.00 to 19.50
Southern—	
Coke, No. 1	17.85 to 18.35
Coke, No. 2	17.35 to 17.85
Coke, No. 3	16.85 to 17.35
Coke, No. 4	16.35 to 16.85
Coke, No. 1 soft	17.85 to 18.35
Coke, No. 2 Soft	17.35 to 17.85
Gray forge	17.75 to 17.85
Mottled	15.10 to 15.60
Malleable Bessemer	18.50 to 19.00
Standard Bessemer	20.40 to 20.90
Jackson County—	
and Kentucky Silvery, 6%	22.40 to 22.90
and Kentucky Silvery, 8%	24.40 to 24.90
and Kentucky Silvery, 10%	26.40 to 26.90

Cast-iron Pipe:
New York—Carload lots, net tons, 6-in., at tidewater, $32.50 to $33.
Chicago—4-in. water pipe, $30; 6-in. to 12-in., $29; over 12-in., $28, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—
Copper:
Lake, 13.62½ to 13.87½ cts.; electrolytic, 13.50 to 13.75 cts.; casting, 13.25 to 13.50 cts.
Lead:
New York, spot, 3.70 to 3.75 cts.
Spelter:
New York, spot, 4.45 to 4.55 cts.
Tin:
New York, spot, 27.75 to 28 cts.

INDUSTRIAL NOTES.

THE LYTH TILE CO., Buffalo, N. Y., announces the removal of its offices from 48 West Eagle St., to 666 Ellicott Square.

THE MARINE ENGINE & MACHINE CO., formerly of 126 Liberty St., New York City, has removed its offices to 230 West Thirteenth St., New York.

PUGH & HUBBARD, Civil Engineers, Philadelphia, Pa., state that their offices have been removed from 1334-5 Real Estate Trust Bldg., to 601 Witherspoon Bldg.

H. N. BENNETT and J. O. WESTBERG announce the incorporation of the Liberty Compound Co., 136 Liberty St., New York City, a company which will manufacture marine and stationary boiler compounds, and elevator emulsions.

THE EMPIRE TRACING CLOTH CO., 160 Fifth Ave., New York, has suspended operations. Geo. E. Siebert, who was in charge of this company, is now connected with L. & C. Hardtmuth.

C. W. HILL & CO., 201 Woodward Bldg., Birmingham, Ala., have been made the special correspondents of the Southern States for Pawling & Harnischfeger, Milwaukee, Wis., builders of traveling cranes and horizontal drilling and boring machines.

THE PARKER BOILER CO., Philadelphia, Pa., advises us that it is now installing boilers in the following plants: Continental Salt & Chemical Co., Alvarado, Cal., one 298-HP.; Lafayette Bldg., Fifth and Chestnut Sts., Philadelphia, two 234-HP.; King Philip Copper Co., Winona, Mich., two 300-HP.

THE U. S. WATERPROOFING CO. has been organized in the State of New York, with headquarters at 1024 St. James Building, 26th St. and Broadway, New York, as agent for the Wunners bitumen emulsion waterproofing. President, Wm. M. Dodge; Vice-Pres., C. H. Freeman; General Manager, Herbert C. Harding; Consulting Engineer, J. W. Hamilton.

LOEBNITZ, SOTOLONGO & ARRANGOIZ, Empedrado 30, Havana, Cuba, announce that the firm of Charles E. O'Donnell, S. en C., of Havana, having been disolved by mutual consent of the partners, they have taken over the assets and liabilities and the good will of the said firm, and that they will continue the same class of business as that conducted by their predecessors, namely: Importation of materials and supplies for contractors, railroads and mills.

MYRON H. LEWIS AND CLIFFORD B. MOORE, announce that they have opened offices in the St. James Building, 1133 Broadway, where they will conduct a general consulting engineering business in waterproofing, foundations, hydraulics and reinforced concrete. Special attention will be given to making investigations, reports and tests and to the preparation of plans, estimates and specifications for waterproofing and damp-proofing work of every description.

THE LEHIGH CAR WHEEL & AXLE WORKS report the receipt of an order for Fuller-Lehigh Pulverizer Mills from the Great Western Portland Cement Co., to be used in both the raw material and clinker departments of the plant being erected for that company at Mildred, Kan. An order has also been received from the Hawkeye Portland Cement Co. for Fuller-Lehigh Mills to be used in the coal, raw material and clinker departments of its plant at Harvey, Iowa.

THE REPUBLIC BELTING & SUPPLY CO., Cleveland, O., in addition to the manufacturing of leather belting and supply business has entered the machine tool field. The company has secured the exclusive agency for the Becker-Brainard Milling Machine Co. of Hyde Park, Mass., for the Ohio territory, and has also secured the services of Mr. Wm. H. Mortimer, who for a number of years has been the Cleveland agent for the Becker-Brainard Co. He will act as assistant sales manager in the machinery department of the Republic Belting & Supply Co.

J. H. WAGENHORST & CO., Youngstown, O., report the following sales of their automatic electric blue printing machines:
The Kelley Co., Birmingham, Ala.
Universal Portland Cement Co., East Chicago, Ill.
Carlson Exploration Co., Hibbing, Minn.
State College of Kentucky, Lexington, Ky.
University of Arkansas, Fayetteville, Ark.
Michelin Tire Co., Milltown, N. J.
Barber-Colman Co., Rockford, Ill.
Dake-American Steam Turbine Co., Grand Rapids, Mich.
Haskell-Barker Car Co., Michigan City, Ind.
Geo. L. Kopp, Pittsburg, Pa.

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

JAIL FITTINGS.—Wagoner, Okla.—J. A. Hildt, Co. Clk., Wagoner, Okla, writes us that the county is in the market for cells and equipment for a jail.

ELECTRICAL CONDUIT.—New York, N. Y.—We are advised that Suffern & Co., exporters, 90 Wall St., New York, are in the market for a carload of electrical conduit. Manufacturers are requested to send catalogs and quotations.

TUNNELLING MACHINERY. — Garrison, N. Y.—C. A. D. Bayley, Engr., Garrison, N. Y., writes us that he desires literature from electrical supply houses, manufacturers of compressed air appliances, drills, etc., for use in tunnel work.

MACHINERY.—Calcutta, India.—We are in receipt of advices from B. M. Goenka & Co., Calcutta, stating that they desire catalogs, with export and cash discounts, of sugar machinery, oil mill machinery, cake presses, and machinery for making oil drums and varnish tins.

BUILDING MATERIAL.—Chicago, Ill.—The Alling Construction Co., 72 Madison St., Chicago, states that it is in the market for 400 tons of reinforcing steel, 12,000 barrels of Portland cement, hollow tile, electric wiring, ornamental and miscellaneous iron work, roofing and sheet metal and wire glass windows.

TRADE PUBLICATIONS.

FOUNDRY SUPPLIES.—The S. Obermayer Co., Chicago and Cincinnati. Paper; 5¾ 8½ ins.; pp. 24; illustrated.

Part of this pamphlet is devoted to particulars of core compounds, flasks, tools and other supplies and specialties. The remainder is filled in with foundry notes and miscellaneous matter.

INDUCTION MOTORS.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin 1040. Paper; 8 × 10½ ins.; pp. 20; illustrated.

The advantages of induction motors in certain places are outlined in this bulletin and the general features of this concern's apparatus are shown. The illustrations show applications of horizontal and vertical machines.

WATER-WORKS.—Des Moines Bridge & Iron Works, Des Moines, Ia. Paper; 5¾ × 8½ ins.; pp. 52; illustrated.

This concern, having built between one and two hundred water-works in various parts of the Central West, has here brought together brief illustrated descriptions of a number of the improvements which it has carried out. Elevated tanks in particular are described. Useful information for water-works engineers and superintendents is given in the final two or three pages of the pamphlet.

CENTRIFUGAL PUMPS. — Allis-Chalmers Co., Milwaukee, Wis. Bulletin 1608. Paper; 8 × 10½ ins.; pp. 4; illustrated.

In these few pages a line of motor-driven, single-stage, centrifugal pumps is briefly described. While this type of pump is of the most simple construction, yet for maximum efficiency each pump is specially designed. These machines are adapted for use as circulating pumps for cooling systems, surface or barometric condensers; for hot water heating; for mine service; for industrial plants requiring the rapid circulation of large quantities of water; for operations that necessitate ejectment of water and other fluids filled with wood chips and bits of bark, stringy material, gritty substances, etc.

TREATMENT OF BELTS.—Cling-Surface Co., 1032 Niagara St., Buffalo, N. Y. Flexible cloth; 4½ × 7 ins.; pp. 88; illustrated.

Many persons after a long period of trouble with tight or slipping belts have found their relief in the use of the dressing known as "Cling-Surface." Most persons have been content to merely daub it on as occasion arose not knowing the immensely better results from consistent and persistent applications. To disseminate more knowledge of its proper and designed use, in 1902, a book, "New Knowledge on Belt Treatment," was sent out and found its way to the shelves of most reputable engineers. This year a similar book is being issued covering the same ground with a new text. In addition to directions for the treatment of all kinds of leather, cotton, balata, rubber or hemp drives and comparative tests on belts, treated and untreated, there are about 25 illustrated cases of remedied trouble.

THE CAR WHEEL.—Giving the Results of a Series of Investigations by Geo. L. Fowler, M. E. The Schoen Steel Wheel Co., Pittsburg, Pa. Paper boards; 6½ × 9½ ins.; pp. 161; illustrated.

While this handsome and unusually elaborate publication is issued in the interests of a particular type of car wheel, it contains a large amount of interesting and valuable information as to car wheels in general, and also as to the relations of wheels and rails. The book opens with a description of the features of the Schoen solid forged and rolled steel wheel, and with the character of the steel. This is supplemented by a number of microphotographs showing the structure of the steel at various points of the tread and flange and at varying depths from the surface. Following these are microphotographs of shelled-out wheels and tires of different makes, with a review of the lessons indicated by defects of this kind. About 50 pages are devoted to descriptions of tests made to determine the relations of wheels to rails, which subject is of interest to the engineer of maintenance-of-way as well as to the superintendent of motive power. The first series of tests was in regard to the area of contact between wheels and rails, the wheels being of various diameters and carrying varying loads. The second series was in regard to the lateral thrust of wheels against the rails, and the breaking stresses of wheel flanges. In both cases special methods and apparatus were employed, with the co-operation and assistance of railway officers. The book closes with a review of the advantages claimed for the Schoen solid forged and rolled steel wheel, based upon the results of the investigations above noted and also upon the results of service tests. The book is handsomely printed. Its illustrations include line and half-tone engravings of wheels and of the special testing apparatus; some 60 microphotographs of steel, and reproductions of a number of impressions obtained showing the form and size of the areas of contact between wheels and rails.

For other Proposal Advertisements see pages 47, 48, 50, of Advertisements and Construction News, page 44.

IMPROVEMENTS IN THE ELECTRIC LIGHTING STATION OF THE BOROUGH OF PARK RIDGE, N. J.

Sealed proposals will be received up to and including February seventeenth for work on the electric lighting plant of the Borough of Park Ridge as follows:
1. Rebuilding dyke wall.
2. Reinforcing and raising the height of the dam.
3. Building of the concrete spillway.
4. Certain grading and filling around the storage reservoir.
5. Furnishing and installing a thirty-kilowatt gasoline driven direct connected unit.

Plans and specifications may be seen at the office of A. B. Methudy, Borough Clerk, Park Ridge, N. J., and at the office of George T. Hanchett, Electrical and Mechanical Engineer, 237 Fulton St., New York City.

Bidders must qualify in the sum of ten per cent. of the amount of the bid and satisfactory bonds. The Borough reserves the right to reject any and all bids.

Situations Open

YOUNG MAN, technical graduate, as assistant to New York structural engineer and contractor. Salary, $60.00 to start; chance for advancement. Give experience, etc. Address "S. A. 6," Engineering News, New York. 6-1t

WANTED—By structural steel firm in New York City, an experienced designer and checker on structural steel; also ornamental draftsman. State age, experience fully, and salary. Address "W. B. 6," Engineering News, New York. 6-1t

Miscellaneous Wants

DRAFTING of all kinds neatly and promptly executed. Tracings a specialty. Address "O. A. 6," Engineering News, New York. 6-1t

FOR SALE

Six-Cylinder Gasoline Marine Engines for Sale

One 6 in. by 6 in. and one 4½ in. by 5 in. They have been thoroughly refitted and are in best condition.
GAS ENGINE & POWER CO. AND CHARLES L. SEABURY & CO., CONSOLIDATED,
Morris Heights, New York City. 6-1t

FOR SALE.
1 Little Giant Steam Shovel.
1 15 × 20 Stand. Gage Loco. (Forney Type).
1 12 × 16 Stand. Gage Loco. (Forney Type).
1 16½ × 22 Stand. Gage Loco. (8-wheel Tender).
1 6 × 10 Narrow Gage Porter Loco.
4 Chicago Cube Concrete Mixers, with Engines.
1 10 × 22 Acme Crusher.
DYAR SUPPLY CO.,
1 Sudbury St., Boston, Mass. 6-1t

FOR SALE

"American Engineer & Railroad Journal," July to December, 1906. January to June, 1907 "Engineering Record," July 27, November 9, December 14, 1907.	$1.50
Steam (William Ripper)	.55
Elementary Geometry (Baker & Bourne)	.75
Second French Course (Beuzemaker)	.55
Heat, Light & Sound (Jones)	.55
Elementary German Grammar (Otto)	.50
Inorganic Chemistry (Roscoe & Lunt)	.50

Postage extra. R. C. BATLEY, 274 Washington Street, Providence, R. I. 6-1t

FOR SALE.
1—Marion Imp. "A," 1¾ yd. Shovel, thorough working order, ready for shipment.
12—3 yd. two way Western Dump Cars, 36" gage, diamond steel frames.
2—Standard gage Flat Cars, 50,000 lbs. capacity.
1—No. 5 Champion Crusher Plant, complete with Eng., Boiler, Elevators and Screens.
2—"A" 32, I. S. Steam Drills.
1—Emerson Steam Pump.
1—½ ton Triplex Hoist (Yale & Towne).
2—5 ft. Vertical Boilers (O. & S.).
Address ARTHUR L. SHREVE & CO., P. O. Box No 89, Bryn Mawr, Pa. 6-1t

Supplement

CONSTRUCTIO
Plans and S
List of Co
Railways
Electric Ra
Lands and
Bridges
Buildings
Water Sup
Sewerage
Garage D
Streets and
Manufactur
Miscellaneo
Post
Foreign Co
CIVIL SERVI
INDUSTRIAL
PROPOSALS

CONST

PLANS AND

(* denotes th

The followin
(S.) are on fil
of The Engi
220 Broadway,

2-15*Fire hy
N. J.
2-18 Water
2-20 Road in
eas F
2-20 Bridge,
2-24*Breakwa
Wis...
2-27 Ditch,
2-29 Elec. el
3- 1 Water-
couver
3- 5 Widenin
.....
3- 5*Repairi
Mich..
3-12 Cement,
3-14*Walls,
3-18 Pumpin
Cal.
4- 1*Canal,

LIST O

LIGHT, HI

2-15*Conduit
2-17*Light
2-20*Light
2-24 Electri
2-24 Light
2-24*Lightin
N. J.
2-24*Lamp
2-25 Equim
3- 1 Lights
3- 4 Light
3-17*Condu
3-18 Elec.
Ill...
4- 1 Lighti
4- 7 Electr

2-14 Bridg
2-15 Iron
2-15*Concr
ture,
2-17 Bridg
2-17 Steel
2-17*Steel
2-17 Bridg
2-18 Bridg
2-18 Bridg
2-19 Bridg
2-20*Bridg
2-20 Steel
2-20 Bridg
2-24 Bridg
2-24 Bridg
2-26 Steel
3- 2 Draw
3- 3 Steel
3- 3 Trest
3- 4 Steel
3- 6 Reinf
Fall
3-31 Bridg

2-14 Post-
2-15 Laun
Ala
2-15*Plans
2-15 Plan
2-17 Scho
2-17*Post-
2-17 Scho
2-17 Scho
2-18 Post
2-18 Scho
2-18 Buil
2-18 Plan
2-20 City
2-20*Inter
2-20 Pack
Ill
2-21 Post
2-24 Stee
2-25 Mar
2-25*Post
2-26 Scho
2-27 Scho
2-28*Post
2-28 Refr
Pla
2-28 Sch
3- 2 Gym
3- 3 Post